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Basin F Subregional Groundwater Model

Edward Mazion, Jr., James H. May, Benita Abraham,
and Maureen K. Corcoran

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Basin F Subregional Groundwater Model

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Commerce City, CO 80240

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Preface

This study is a subregional numerical computer groundwater model of the Basin F Area of Rocky Mountain Arsenal (RMA). The study was conducted by the U.S. Army Engineer Research and Development Center (ERDC), Geotechnical and Structures Laboratory (GSL), for the Program Manager's Office, Rocky Mountain Arsenal, Colorado, and is part of the Detailed Analysis of Alternatives (DAA) of the Rocky Mountain Arsenal Feasibility Study (FS). This modeling effort was conducted before ERDC developed the Department of Defense Groundwater Modeling System (GMS). The GMS is widely used for visualizing and numerical modeling of complex groundwater problems.

This report was written by Captain Edward Mazion, Jr., EN, Dr. James H. May, Mrs. Benita Abraham, and Ms. Maureen K. Corcoran, GSL. It was completed under the supervision of Dr. Lillian D. Wakeley, Chief, Engineering Geology & Geophysics Branch, and Dr. Robert Hall, Chief, Geosciences and Structures Division, GSL. Dr. Michael J. O'Connor was Director, GSL.

The GSL gratefully acknowledges the helpful suggestions, constructive criticisms, and information provided by Dr. James W. Warner, Mr. C. Tamayo-Lara, and Dr. A. A. Abdel-Rahman, Civil Engineering Department, Colorado State University.

At the time of publication of this report, Dr. James R. Houston was Director of ERDC, and COL John W. Morris III, EN, was Commander and Executive Director.

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1 Introduction and Purpose

Purpose of Subregional Groundwater Modeling

The groundwater flow system at Rocky Mountain Arsenal (RMA) is complex. To evaluate proposed remedial alternatives, interaction of the local groundwater flow system with the present contamination control systems must be understood. The purpose of this modeling effort is to provide a tool for evaluation and relative comparison of groundwater remedial alternatives. The model provides a method to assess the local groundwater impact of each remedial alternative. Results from the modeling effort will be used to compare the preliminary design of various remedial alternatives, and to allow general modification and reconfiguration of those designs to optimize their performance as part of the Detailed Analysis of Alternatives (DAA) of the Feasibility Study (FS).

General Description of Model Area

The RMA is located in Commerce City, Colorado, and is shown in Figure 1. The model boundary is defined in bold outline in Figure 2 and encompasses approximately 3.6 square miles. Portions of the north and west boundaries of the model coincide with the North Boundary Containment Treatment System (NBCTS) and the Northwest Boundary Containment System (NWBCS), respectively.

Groundwater movement in the study area is difficult to predict. Most groundwater flow occurs within alluvial and eolian deposits, which are referred to as "alluvium" in this report. Underlying the alluvium is the Denver Fm, which generally consists of sands, silts and clays, and is commonly less permeable than the alluvium. In parts of the study area, the alluvium is unsaturated. The water table occurs within the upper portion of the Denver Fm in areas of unsaturated alluvium.

The direction of groundwater movement within the model area is generally from southeast to northwest. This natural flow direction is influenced by contamination control systems within the model domain. There are some permeable Denver sands in direct hydraulic connection with the shallow alluvium within the model area. These Denver sands provide sources of water that affect the groundwater flow. Conceptually, some of these areas of subcropping Denver sands act as localized or point sources for the overall water budget for the

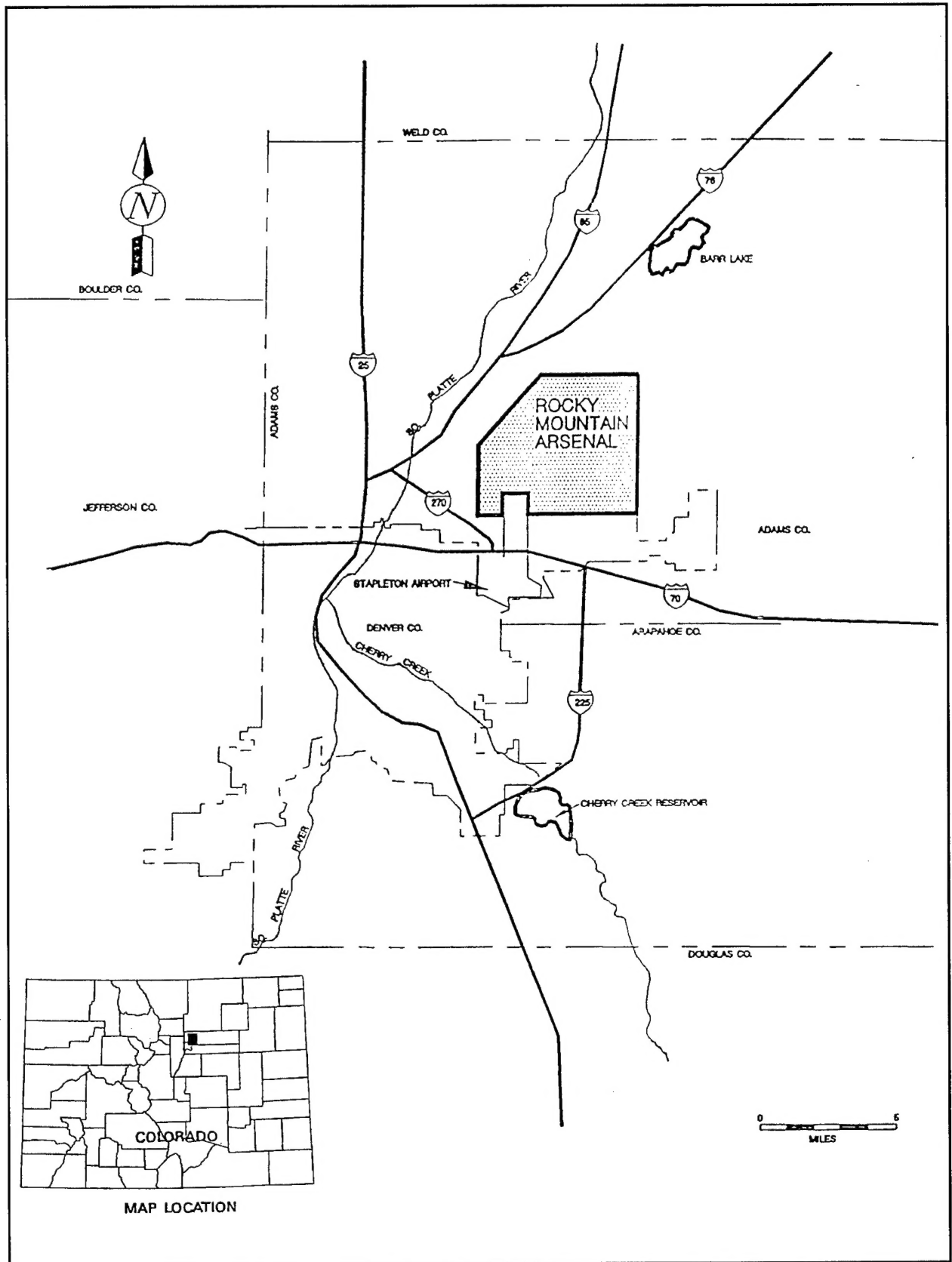


Figure 1. Rocky Mountain Arsenal location map

modeled area. Infiltration from man-made basins and recharge from precipitation are other sources of water influencing groundwater flow within the model area.

Modeling Objectives

Specific objectives of the modeling effort were developed based on the FS modeling needs established by RMA. The objectives of the modeling effort as described by the U.S. Army Program Manager for RMA are as follows:

- a.* Represent the unconfined flow system (UFS), which is composed of saturated alluvium and upper Denver Fm, as individual geologic layers through the saturated portion.
- b.* Represent equivalent realistic conditions, in terms of groundwater elevations and flux, such that at steady-state calibration, hydraulic heads are within plus-or-minus 3 ft of observed conditions for 90 percent of boundary nodes.
- c.* Calibrate the model so that 95 percent of the simulated heads for observation wells are within plus-or-minus 3 ft of observed values.
- d.* Reproduce the general form and location of areas of unsaturated alluvium by model simulations.
- e.* Grid the model with sufficient detail to allow adequate representation of closely-spaced wells, trenches and/or low-permeability barriers, for the simulation of groundwater control alternatives that incorporate such features. The model's grid must be of such detail that the finite elements that represent Basins C and F are no more than 100 ft across in the direction perpendicular to the perimeter of the basins.
- f.* Incorporate particle-tracking capability into the model to allow the delineation of flow lines and to enable evaluation of groundwater control alternatives by particle capture.
- g.* Provide sufficient documentation to allow review and evaluation of the model code, parameters used in the model, model setup and calibration, sensitivity analysis, calibration criteria, and results.

Objectives are used to assist in defining the goals and associated scope of work of the modeling effort and address the need for modeling during the DAA of the FS, which requires comparison of remedial alternatives that have been retained. Objectives also allow for some flexibility in the analysis, such as combination or addition of remedial alternatives during subsequent phases of the FS.

Approach

To accomplish the modeling objectives, a numerical groundwater flow model of the study area was developed to represent the conceptual model of the groundwater system which has evolved from previous studies. The degree of complexity of the model is the minimum level required to incorporate available data and accomplish the modeling objectives.

The modeled area (Figure 2) was selected for the following reasons:

- a. The proposed remedial alternatives are centered within the selected model area.
- b. The model objectives require a detailed analysis of groundwater movement near Basins C and F.
- c. Three containment systems, two of which are boundaries of the model area, are located in the study area. These containment systems provide current data on the quantity of groundwater being exchanged through the aquifer at these systems.
- d. The model overlaps with previously developed models; the North Boundary Model to the north and the South Plants/Basin A Model to the south. This overlap allows comparison of model data and results. Part of the modeled area overlaps an area modeled during reevaluation of the NBCTS Interim Response Action (IRA) improvement study.

Data used for the initial model runs were obtained from existing data approved by RMA. Data sources include officially released reports, RMA's established database, and other IRAs and modeling activities. The official data base for RMA is maintained by DP Associates, Inc.

The groundwater flow system in the study area is assumed to exist in a "steady state" or "dynamic equilibrium" for a steady-state calibration. The assumption of steady-state flow conditions was also made by Warner (1979), Earth Technology Corporation (ERTEC) (1982), Morrison-Knudsen Engineers (MKE) (1989), and Harding Lawson Associates (HLA et al.) (1990).

This modeling effort accounts for groundwater flow in the upper Denver Fm. This approach differs from the majority of previous modeling efforts, which treat unsaturated alluvium areas as impermeable and do not address flow in the Denver Fm. Exchange of groundwater between the alluvium and the Denver Fm sands, basins, and precipitation infiltration is handled by areal inputs.

The model was calibrated by applying the existing concepts of flow in the modeled area to reproduce known water levels, groundwater discharge and recharge, and the flux through the aquifer system and across boundaries.

It is the intent of this modeling effort to incorporate all current pertinent hydrogeologic data into the model. Corrections to the RMA database and data from other ongoing modeling activities were incorporated when possible.

Model Selection and Applicability

The selection of the model was based on the following considerations:

- a. The model should be based on existing Colorado State University (CSU) computer code because the model area overlapped areas to the north and northwest previously modeled using CSU code.
- b. The model must have the ability to represent groundwater heads and flux through the UFS allowing for representation of flux across the bottom and side boundaries. Inflow to the UFS from the Denver Fm or outflow from the UFS to the Denver Fm was represented as localized sources or sinks.
- c. The model must have the capability to represent local aquifer hydraulic properties that may vary as a function of groundwater elevations and aquifer saturated thickness.
- d. The model must contain adequate particle-tracking capability to allow the introduction and representation of unretarded, nondegrading particles within the model domain.
- e. The model must have the ability to meet each of the stated objectives.

The model selected is a single-layer, two-dimensional horizontal finite element model (GW Flow) developed by CSU. A copy of the computer code for the model is provided in Appendix A. The CSU model has the ability to adequately simulate the complex flow system and was selected for its ability to represent local aquifer hydraulic properties that may vary as a function of groundwater elevations and aquifer saturated thickness. This allows the model to simulate groundwater extraction, recharge, and flushing alternatives, which may result in substantial changes in water-table elevations and in aquifer saturated thickness.

The assumptions involved in using this groundwater flow model include:

- a. The movement of ground water through the aquifer is described by Darcy's Law.
- b. The aquifer flow system can be adequately simulated as a single-layer, two-dimensional horizontal areal flow system.
- c. The transmissivity of the UFS at any point is equivalent to the sum of the transmissivities of the saturated alluvium and the saturated upper Denver Fm.
- d. Vertical flow between the UFS and the unweathered portions of the Denver Fm only occurs through Denver Fm sands in direct contact with the base of the alluvium.

2 Conceptual Model

Hydrogeology of the modeled area has been investigated extensively in past studies, which have examined both the local and regional aspects of the groundwater flow system. Previous studies provided a good conceptual picture of the hydrogeology for the area studied. The concept of the UFS for use in numerical modeling at RMA was formulated by Dr. James May and first used in the ERTEC model (1982). The Basin F Subregional Numerical Model is based on the conceptual model outline discussed in detail in the Revised Regional Groundwater Flow Model by HLA et al. 1990.

The major difference between the conceptualization used in the Revised Regional Groundwater Model and this subregional modeling effort is how the flow through the upper Denver Fm is modeled. The Basin F Subregional Conceptual Model allows for groundwater flow through the upper Denver Fm in areas of both saturated and unsaturated alluvium, whereas the Revised Regional Groundwater model only has flow through the upper Denver Fm in areas of unsaturated alluvium. This modeling effort has groundwater flow occurring through weathered Denver Fm bedrock throughout the entire study area. Other than the flow in the upper Denver Fm, the conceptualization of the Basin F subregional model is the same as that of the revised regional model. The following paragraphs discuss only the notable features of the conceptual model.

Unconfined Flow System

Unconsolidated alluvium is the uppermost water bearing unit within the model domain. The alluvium consists of alluvial fill, eolian sands and silts, glacial outwash, fluvial sands, gravel, silts, and clays (Ebasco et al. 1989b). The thickness of the alluvium is highly variable, ranging from 0 to approximately 80 ft (HLA et al. 1990). Thicker areas of alluvium are commonly found in numerous paleochannels that are incised into the Denver Fm. The materials in the paleochannels are coarser grained and more permeable than those in areas outside the channels (MKE 1987).

Underlying the alluvium throughout the study area is the Denver Fm, which consists of shales, sandstones, siltstones, claystones, low-grade coal, and lignite (May 1982, Ebasco et al. 1989b). The Denver Fm is referred to as bedrock in this report, and the interface between the Denver Fm and the alluvium is the bedrock surface. At locations where the water table lies below the bedrock

surface, the alluvium is unsaturated. The flow system in the model area is conceptualized as a two-dimensional unconfined flow system as shown in Figure 3. The base of the UFS is interpreted as always being below the bedrock surface. Theoretically, the base of the UFS is defined as the elevation where the potentiometric head in the Denver Fm and the water table in nearby alluvial material coincide.

The UFS flow through the model area is under unconfined conditions. Deeper water-bearing zones in the same area may be confined or semi-confined. The groundwater moves through the saturated alluvium and through the weathered upper Denver Fm. The majority of flow through the upper Denver Fm of the UFS is in areas of unsaturated alluvium. It is in these areas that more severe oxidation and weathering would most likely occur. Therefore, shallow groundwater flow occurs within a single UFS that consists of alluvium and the upper Denver Fm.

Sinks and Sources

The UFS within the model domain is affected by any water exchange to or from the system. Therefore, it is important to understand the relationship between the groundwater within the UFS and any activity that adds or removes water from the UFS.

Water exchange within the UFS is characterized by all significant activities that recharge water to the UFS (sources) or remove water from the UFS (sinks). The following factors were considered as sources of water exchange for this study: (1) infiltration from basins, (2) infiltration of precipitation, (3) groundwater flow from Denver Fm sands into the UFS, (4) groundwater pumping and injection, and (5) boundary flow. A detailed analysis of each water-exchange activity will be made and discussed in subsequent parts of this report. Although downward gradients are common in the modeled area, the low permeability associated with most of the Denver Fm seems to prohibit significant downward movement of water. Water flows into the weathered Denver Fm and then flows laterally, reentering the alluvium at a lower elevation.

Summary

Groundwater flow of the model area is conceptualized as a two-layered UFS consisting of alluvium and upper Denver Fm. The groundwater flow system is affected by water exchange involving surface-water bodies, precipitation, flows from the Denver Fm, groundwater pumping and injection, and boundary flow.

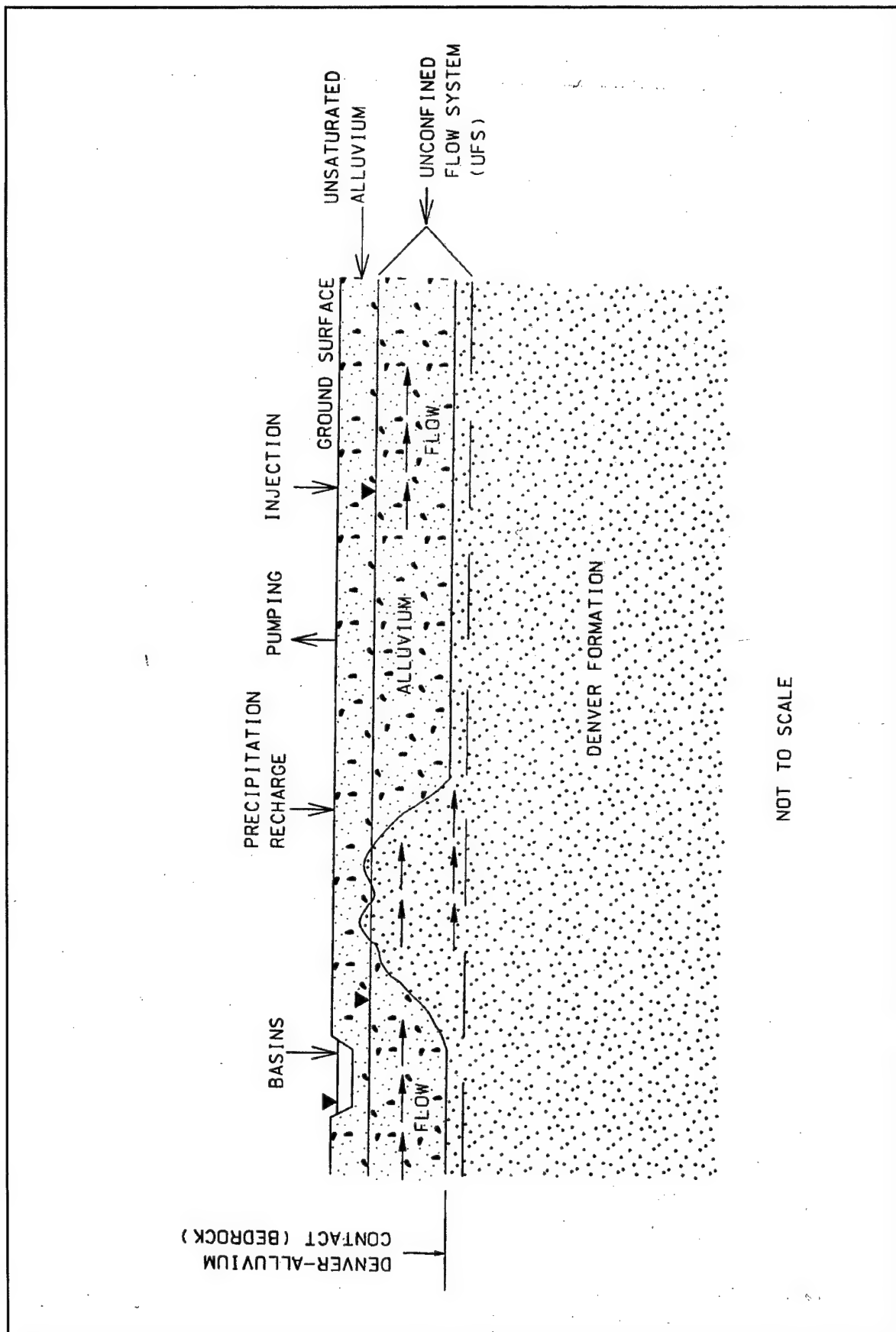


Figure 3. Conceptual model

3 Modeling Procedure

Numerical Model

The numerical model used in this study analyzes two-dimensional horizontal movement of groundwater. The use of a two-dimensional areal model is justified because the dominant flow of groundwater and contaminants is areal and because downward-moving groundwater intersects low-permeability clay zones and moves back into the alluvium. Vertical movement of groundwater between the UFS and other aquifers is not simulated in this study except as recharge or discharge to the horizontal flow system.

The finite-element procedure used to model the groundwater flow system requires the discretization of the modeled area into discrete subregions called elements. The model allows for the modeled area to be divided into distinct areas which are formed as loops (Figure 4) using the mesh generator. Once an area is broken out as a loop, it can then be divided into as many elements as required. In this study, the discretization procedure resulted in a mesh of ten loops consisting of 6,466 triangular elements and 3,359 nodes (Figure 5). Figures 6 and 7 show an enlarged portion of the mesh with the element and node numbers. The mesh encompasses an area of 3.64 square miles. The shape and discretization level of the constructed mesh were governed by the following criteria:

- a.* A discretization level with sufficient detail to allow the adequate representation of closely spaced wells, trenches and/or low-permeability barriers for simulation of groundwater control system alternatives.
- b.* An adequate representation of the three contaminant control systems located on the boundaries of the model area.
- c.* A discretization level with sufficient detail to represent areas where rapid changes in groundwater levels exist.
- d.* A minimum number of total elements and nodes needed to accomplish the objectives.

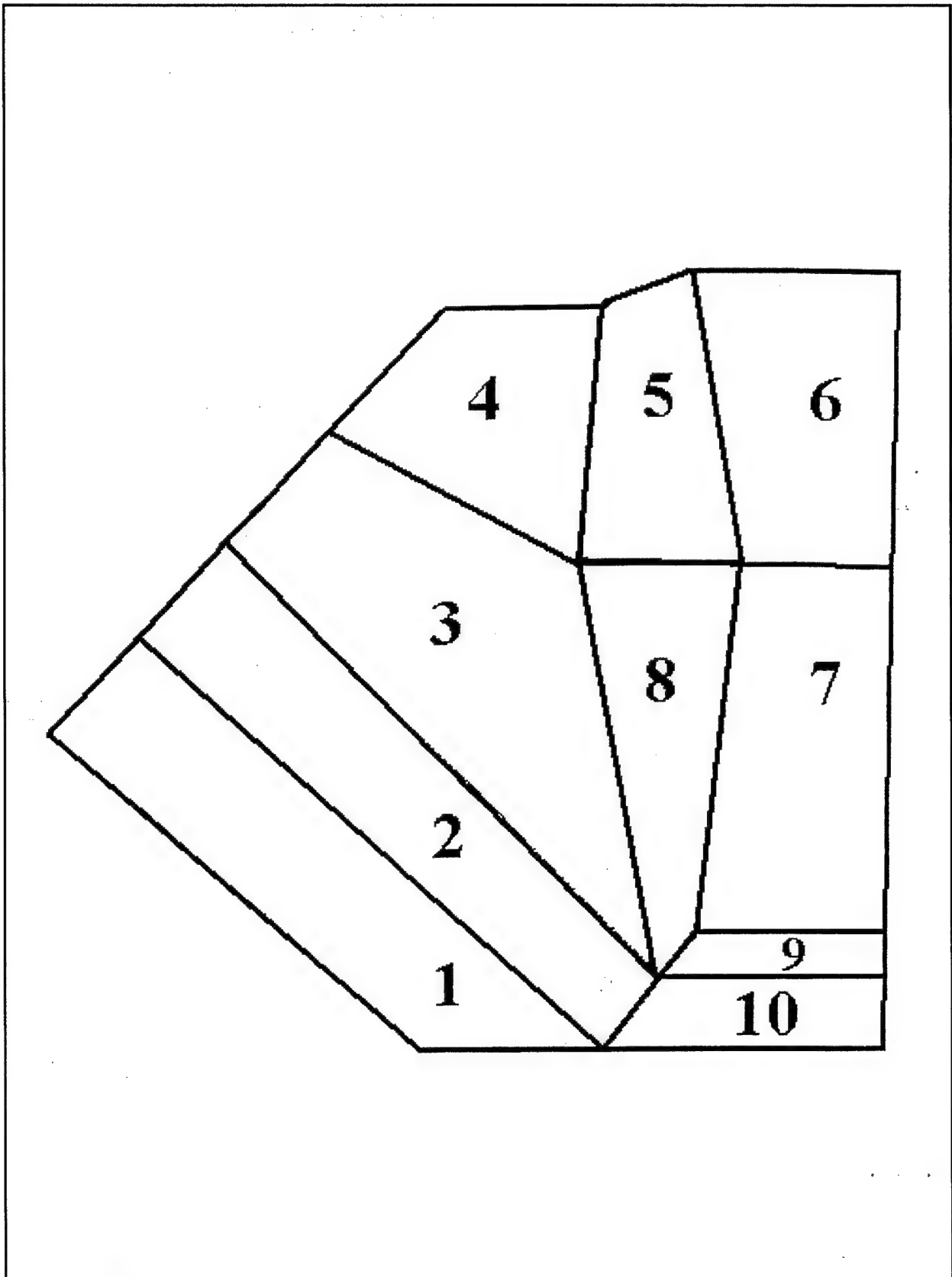


Figure 4. Mesh of ten loops

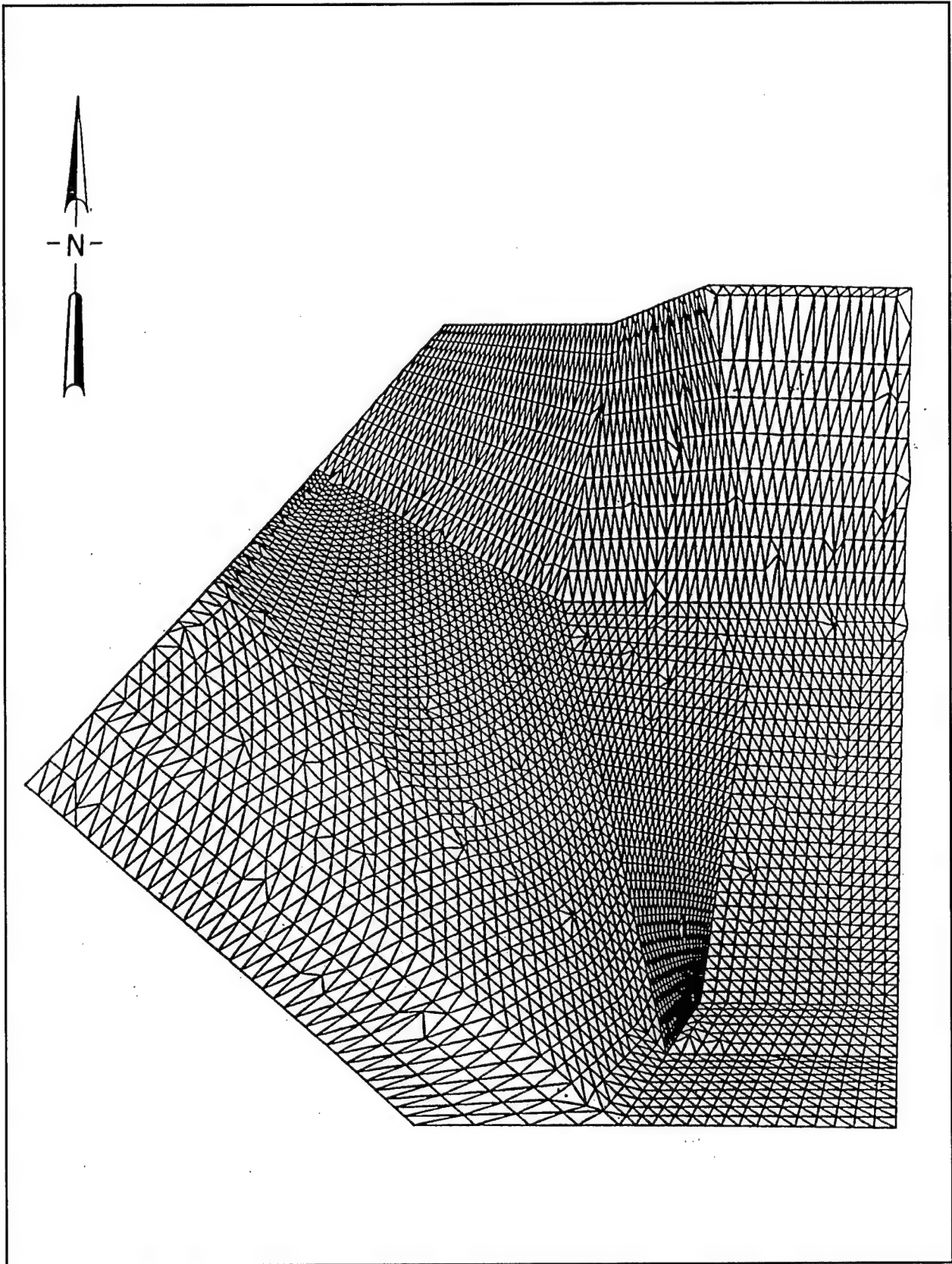


Figure 5. Finite element grid

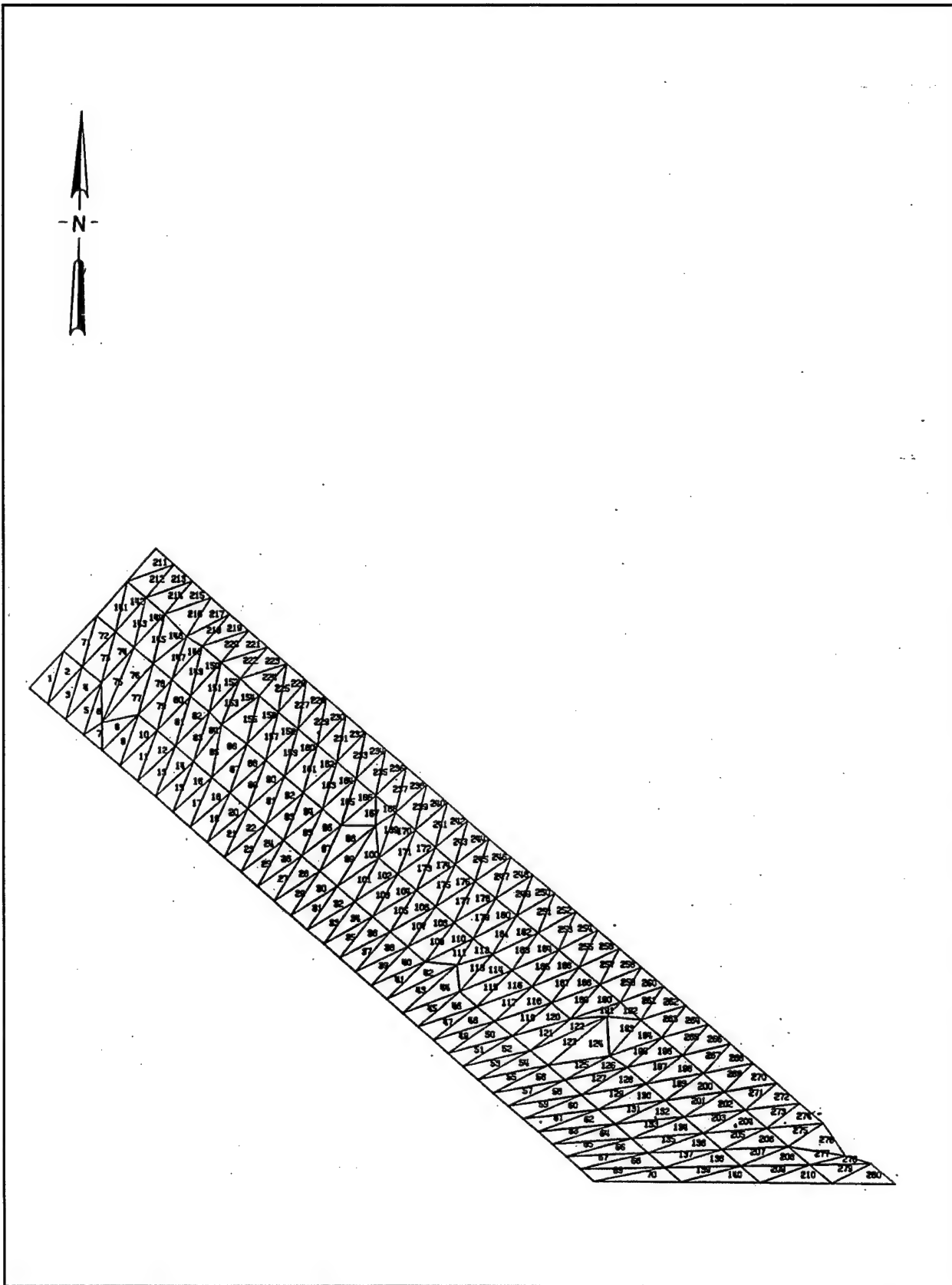


Figure 6. Grid element numbers

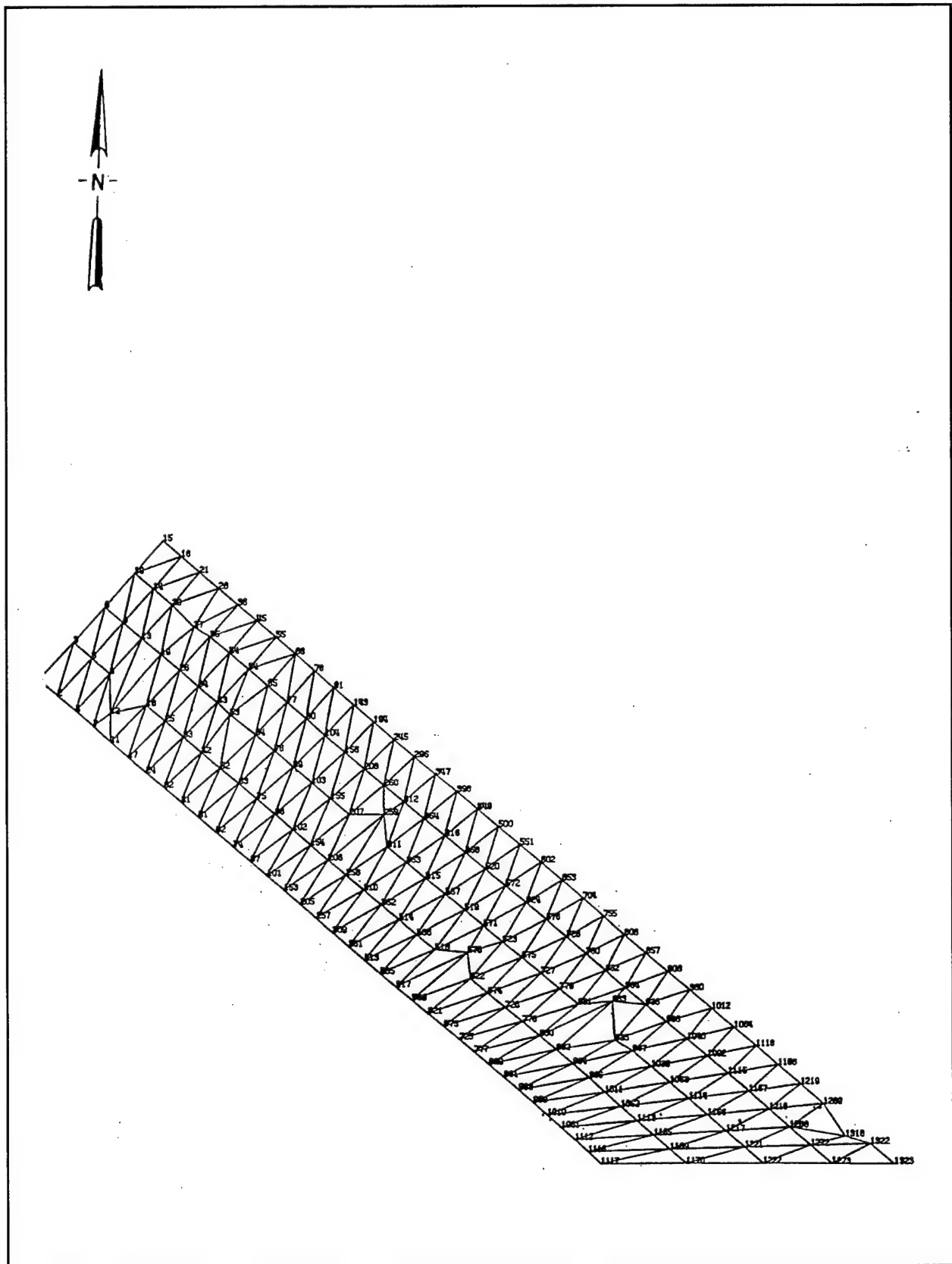


Figure 7. Grid node numbers

Model Inputs

For simulations, the CSU numerical model, GW Flow, requires input of parameters that characterize transmissive properties of the groundwater flow system and the fluxes that represent quantitative contributions to and losses from the groundwater flow system. As stated earlier, the initial input data used in this modeling effort were taken from technical reports officially released by the Program Manager's Office for Rocky Mountain Arsenal, and from the RMA official database.

The quantitative definition of the following types of information and parameters describing the groundwater flow system were required: (1) ground-surface elevations, (2) water-table elevations, (3) hydraulic conductivity, (4) spatial distribution of basin and precipitation infiltration, (5) groundwater pumping and injection, and (6) boundary conditions. Each of these component inputs is discussed in terms of the data used and the method used to assign values to nodal points/or elements within the model.

Ground-surface elevations

The ground-surface elevations were taken from the official RMA data base. The elevation of the bedrock surface and the base of the UFS were taken from the 1989 Final Water Remedial Investigation Report (FWRIR) released by RMA and prepared by Ebasco. Contour maps of bedrock elevation and base of UFS elevation in the study area were prepared as part of the FWRIR (Plates 7 and 14, Ebasco et al. 1989b). Contour maps of each surface were digitized to produce a numerical data file in the form of X coordinate, Y coordinate, and surface elevation Z at each X and Y. The procedure produced an X, Y, and Z value for each point within the digitized area at 75 ft intervals. The X, Y, Z data file representing each surface elevation was used as input for the portion of the CSU code that generates the data file required for model simulation. To generate this data file, the model applies an internal inverse distance routine to each X, Y, Z data file to determine a Z value (surface elevation) at each node location within the model domain. The resulting data file consisted of the surface elevation at each node. Additional data approved by RMA and obtained from other agencies, activities, and modeling efforts were also incorporated into the data files. Data files representing the ground surface, bedrock surface, and base of UFS surface were used as input to the model for steady-state calibration. Elevation contour maps of the ground surface, bedrock surface, and UFS base surface used for calibration are shown in Figures 8, 9, and 10, respectively.

Water-table elevations

Water-table elevations used to represent the observed steady-state flow field are based on the summer 1990 water-table elevation contour map of the UFS taken from the Comprehensive Monitoring Program's Annual Ground Water Report for 1990 (Figure 4.1-4, Stollar & Assoc. et al. 1990). The contour map of summer 1990 water-table elevation is based on hydraulic head data collected from monitoring wells, and on estimates and interpretations of the hydraulic

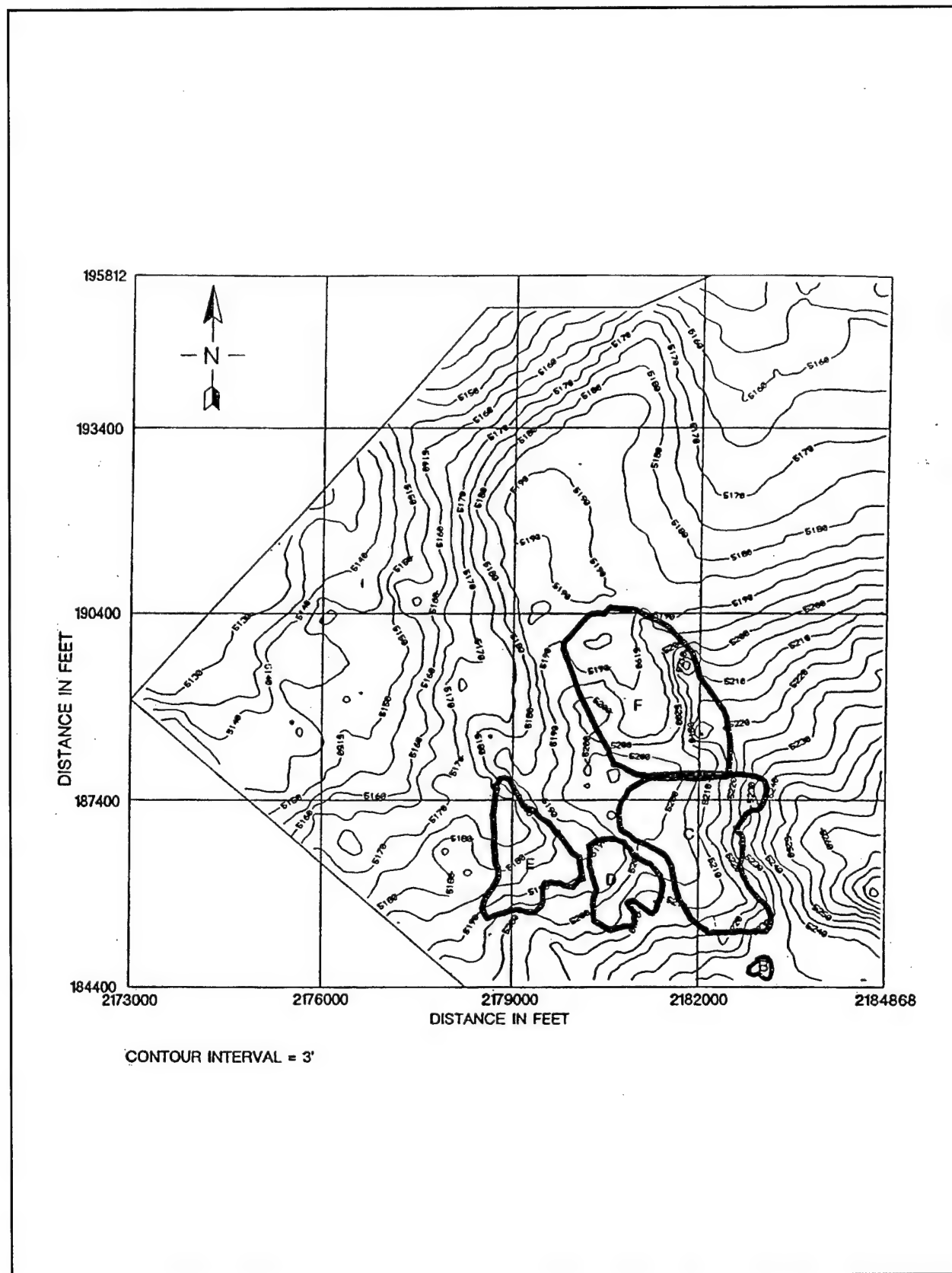


Figure 8. Ground surface elevation

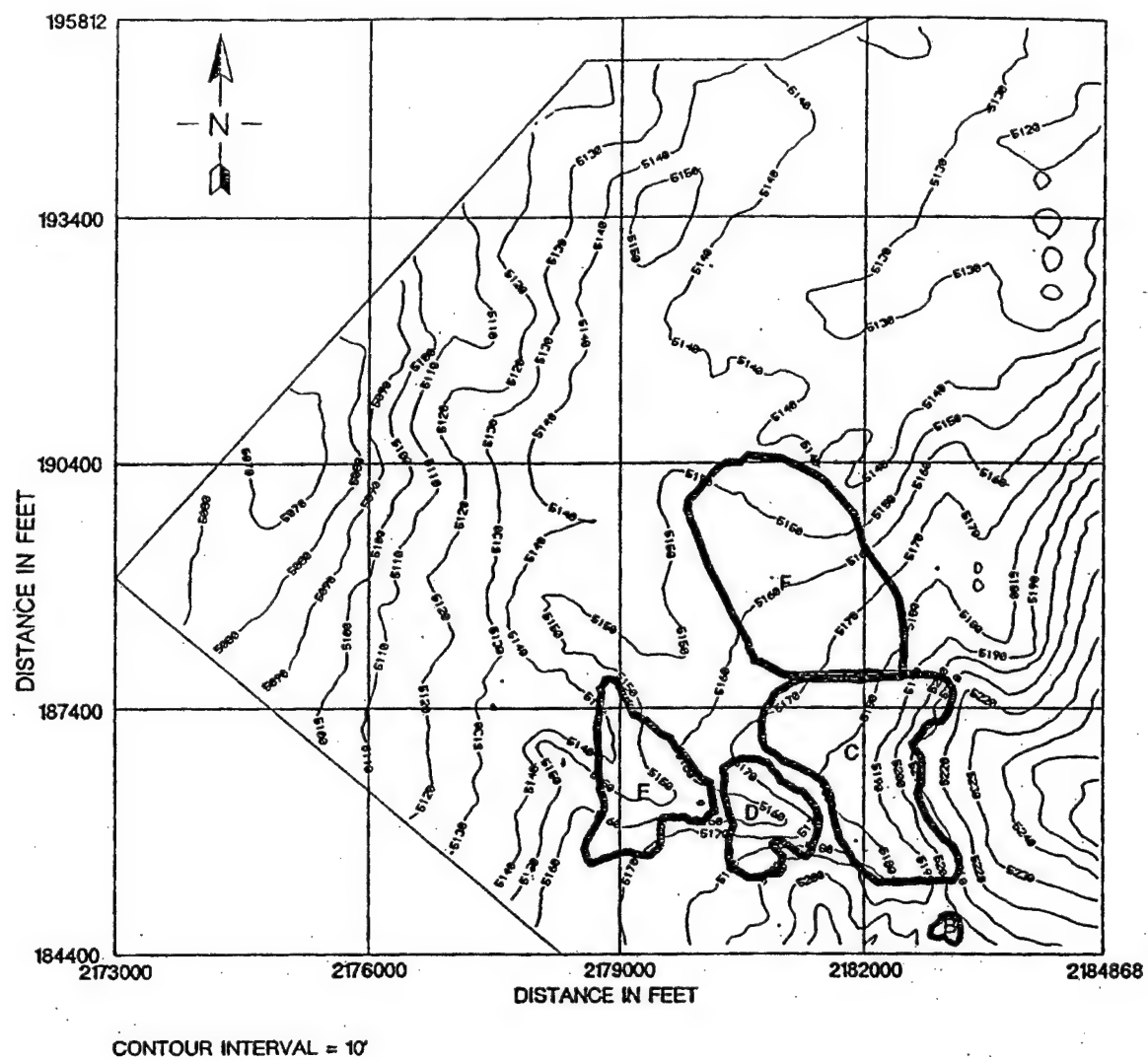


Figure 9. Bedrock surface elevation

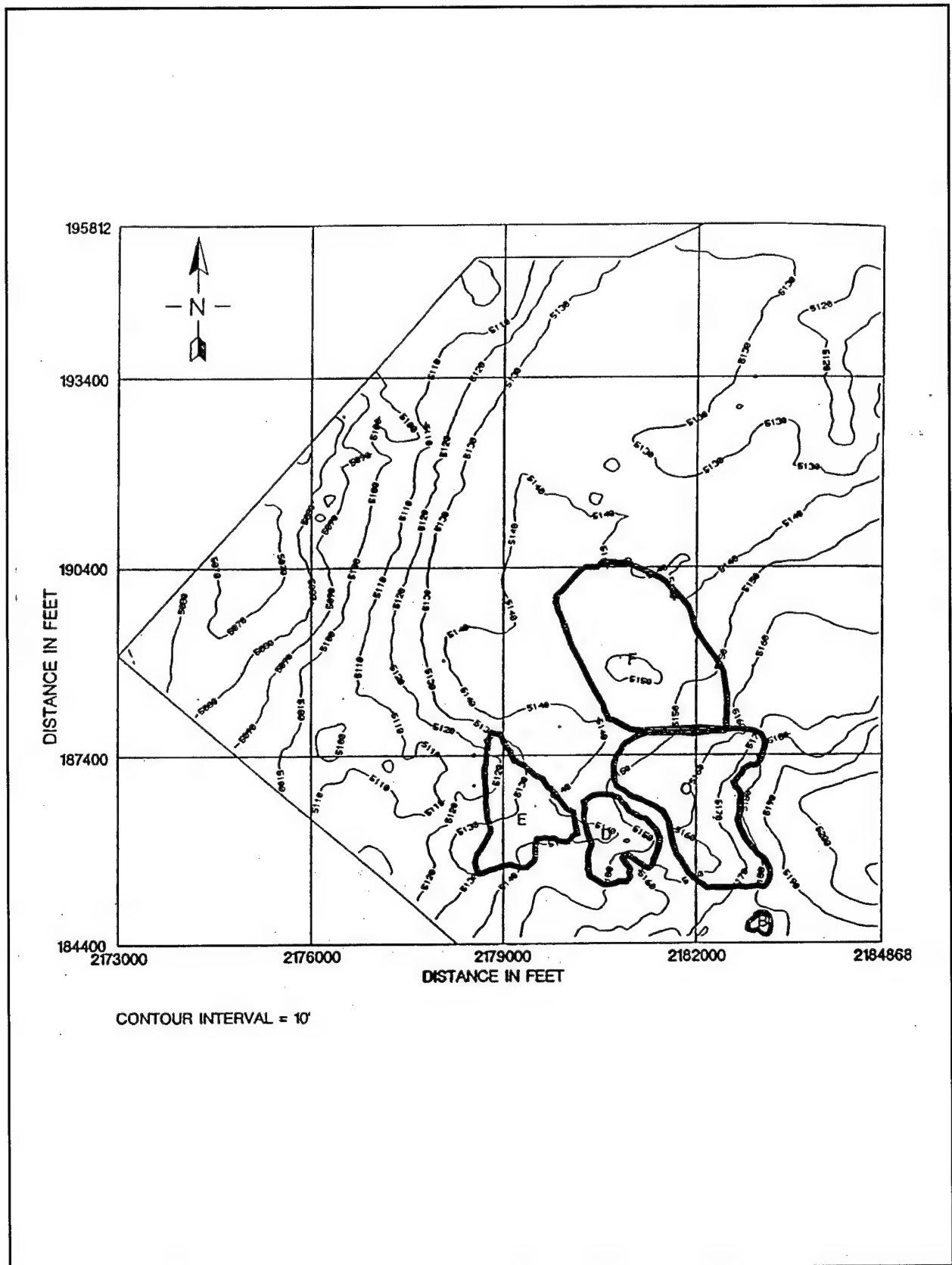


Figure 10. UFS base elevation

head made from hydrogeologic data. Because the map is interpretive, the model steady-state calibration is based primarily on observed hydraulic heads from monitoring wells. Hydraulic heads from 74 monitoring wells were selected as the basis for model calibration. Wells were selected because they did not exhibit highly variable head changes over a 5-year period or any other signs that would indicate poor well construction. Locations of observation wells used for calibration are shown in Figure 11.

The summer 1990 water-table contour map was digitized to generate the X, Y, Z data file needed to produce the data file used for model calibration. The same process used to produce model input data files for the surface elevations was taken to produce the water-table elevation input data file used as the basis for model calibration. A contour map of the water-table elevation data file used to model steady-state calibration is shown in Figure 12. The map indicates that the prevailing flow direction in the shallow groundwater is from southeast to northwest.

The summer 1990 water levels were taken as the basis for model steady-state calibration. Calibration of the model is based on the model's ability to accurately reproduce the observed water levels. The use of 1990 water levels as the basis for steady-state calibration is justified with the assumption that the water levels are in a state of dynamic equilibrium. The summer 1990 water levels were used because they were the most complete set of water levels available at the start of this modeling effort.

Hydraulic conductivity

The CSU code simulates the UFS as one aquifer requiring two different hydraulic conductivities at each node. The alluvium portion of the UFS requires a hydraulic conductivity data file different from that of the upper Denver Fm portion of the UFS.

The hydraulic conductivity value assigned to each node for the initial model calibration run was determined from a map produced in the Final Water Remedial Investigation Report (FWRIR) (Plate 16, Ebasco et al. 1989).

The hydraulic conductivity map divides the model area into different zones based on boring logs, aquifer test analyses, and geologic interpretations of depositional materials. Different material classifications were used, each characterized by a representative hydraulic conductivity and a possible range of conductivity values.

A more detailed hydraulic conductivity zonation of the study area near the Northwest Boundary System was provided by Woodward-Clyde Federal Services. These additional data were produced from boring logs and seismic tests conducted as part of their Northwest Boundary System modeling effort. Based on this new data, modifications were made to the FWRIR conductivity zones in the area west of the North Boundary System. The hydraulic conductivity zones map representing the initial hydraulic conductivity of the study area is shown in Figure 13.

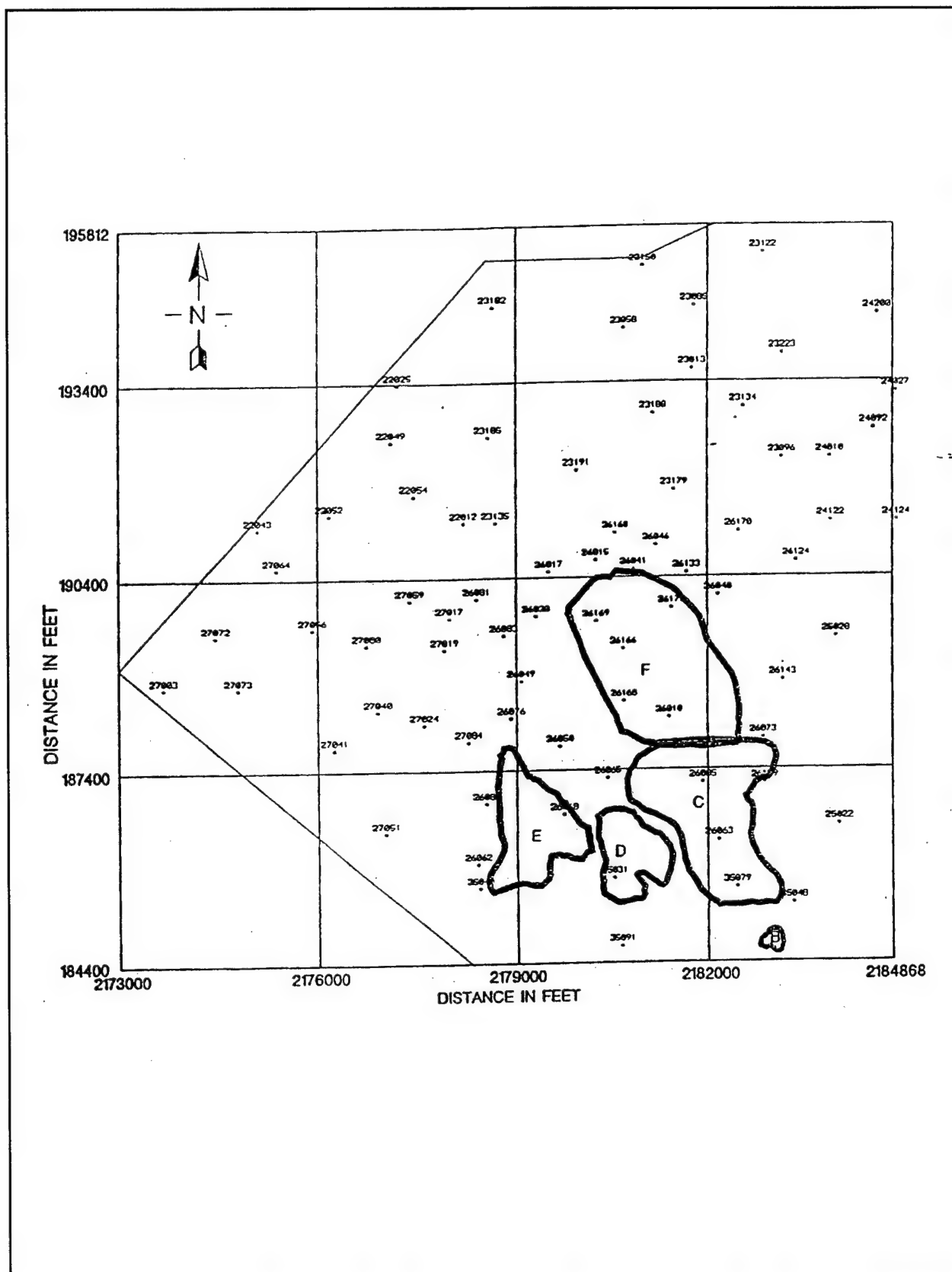


Figure 11. Calibration observation well

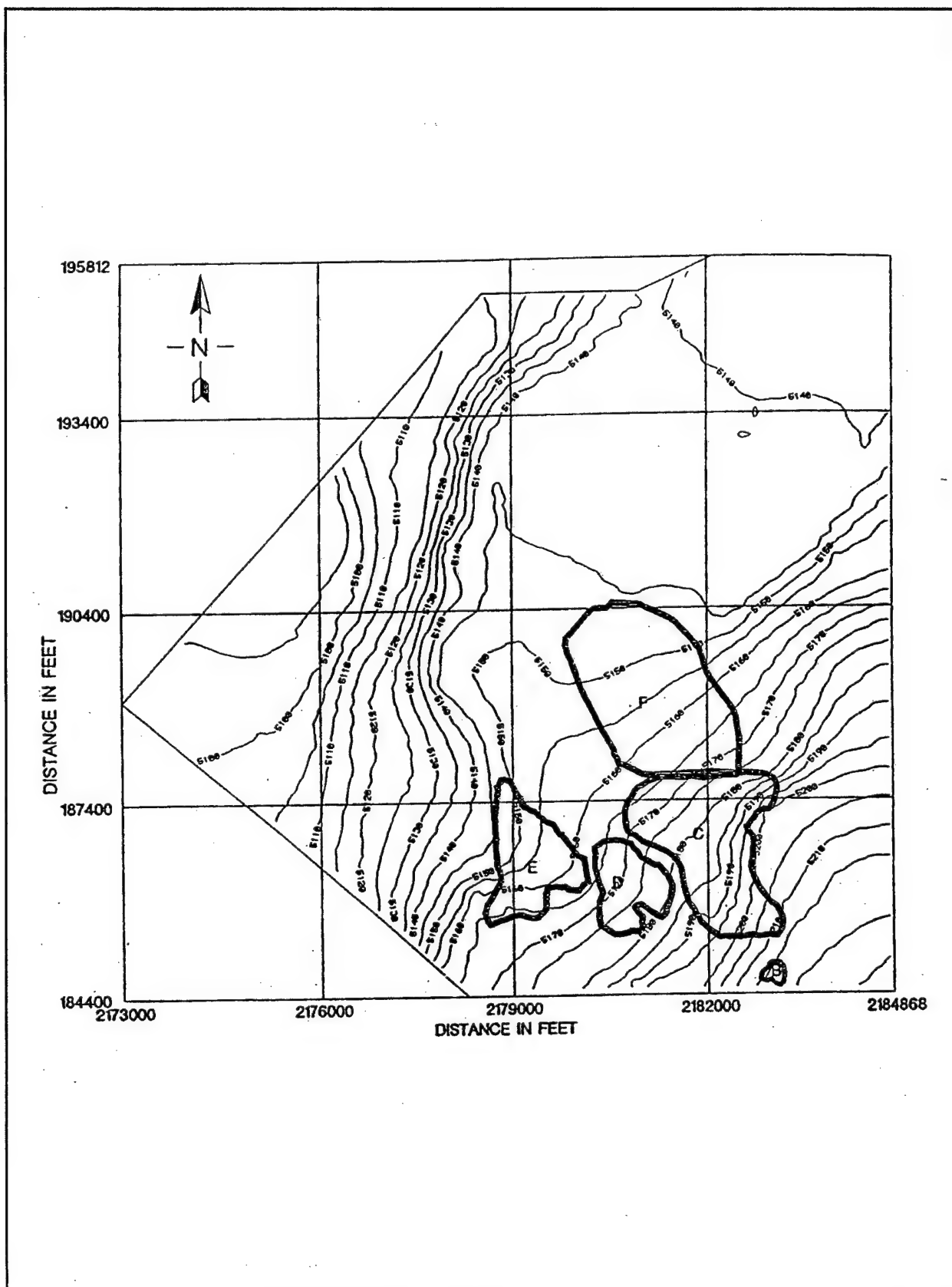


Figure 12. Summer 1990 water level elevation

The hydraulic conductivity map from the FWRIR (Plate 16, Ebasco et al. 1989) was digitized to produce a data file of X, Y, and Z coordinates consisting of hydraulic conductivity (Z values) representative of each material type on the map. The resulting data file represented known alluvium hydraulic conductivities (Z values) for specific X and Y coordinates. The X, Y, and Z data file was used by the inverse distance subroutine to determine the alluvium hydraulic conductivity at each node. The alluvium hydraulic conductivity used for calibration ranged from 2 to 1,500 ft/day.

The weathered upper Denver Fm hydraulic/conductivity data file was produced by initially assigning a constant hydraulic/conductivity value of 2.8 ft/day to the entire Denver Fm within the model area. This value was determined to be representative of the upper Denver Fm within the model area based on the hydraulic conductivity zone map produced in the FWRIR (Plate 16, Ebasco et al. 1989) and on the data produced by the Regional Groundwater Study of RMA (May 1982). The upper Denver Fm hydraulic conductivity of 2.8 ft/day is similar to the value of 3 ft/day used in the Revised Regional Groundwater Flow Model (HLA et al. 1990) in areas corresponding to the modeled area. Hydraulic conductivities ranging from 0.0014 to 283 ft/day within the Denver Fm were reported by MKE (1989). The Denver Fm hydraulic conductivities at calibration ranged from 0.1 to 14 ft/day. The variability in hydraulic conductivity values illustrates the uncertainties associated with the hydraulic conductivity of the upper Denver Fm.

The hydraulic conductivities and the saturated thickness of the UFS are required to produce the transmissivity of the UFS. The transmissivity of the UFS is the parameter required by the model and consists of the product of the hydraulic conductivity and the thickness of the material. The transmissivity for the UFS is the sum of the transmissivity of the alluvium and upper Denver Fm which is effectively a weighted average. The equation the model applies to determine the transmissivity at each node with saturated alluvium is shown in Figure 14.

A contour map of the resulting transmissivity distribution used for steady-state calibration is shown in Figure 15.

Spatial distribution of basin and precipitation infiltration

The recharge of water to the UFS is from precipitation infiltration, inflow from subcropping Denver Fm sands, and basin infiltration. Recharge to the UFS from these sources is represented by an areal flux. This areal flux is represented by applying a prescribed flux to the elements covering the desired area. Elements within the specific locations are assigned an identification code which is then used to apply the desired flux.

A percentage of precipitation moves beyond the root zone and ends up as recharge to the shallow unconfined aquifer. Estimates of the areal recharge of precipitation are variable. An infiltration study conducted by MKE in 1987 estimated an infiltration rate of 0.25 in. per year as a reasonable value for

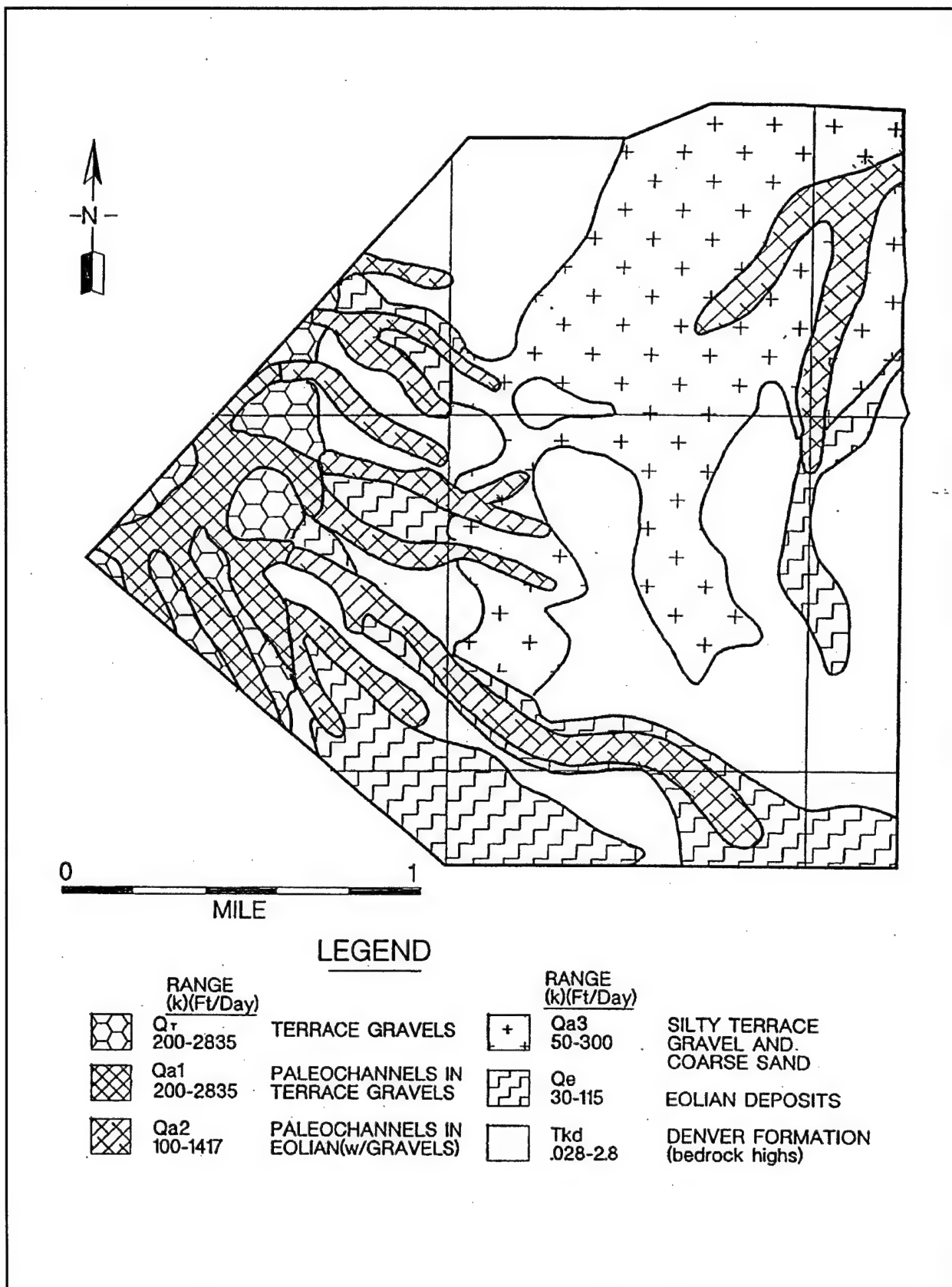


Figure 13. Hydraulic conductivity zone map

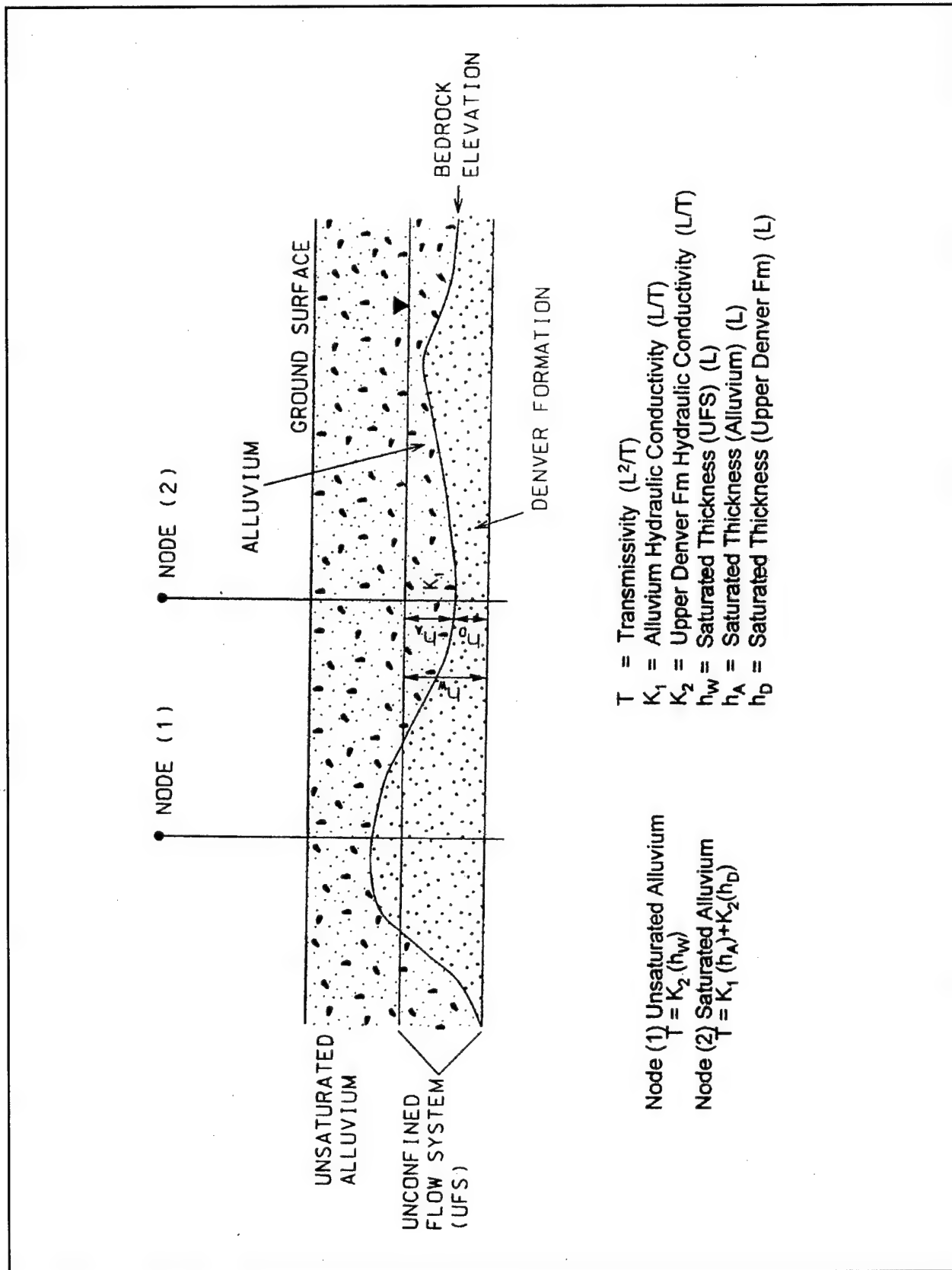


Figure 14. Equation for calculation of transmissivity

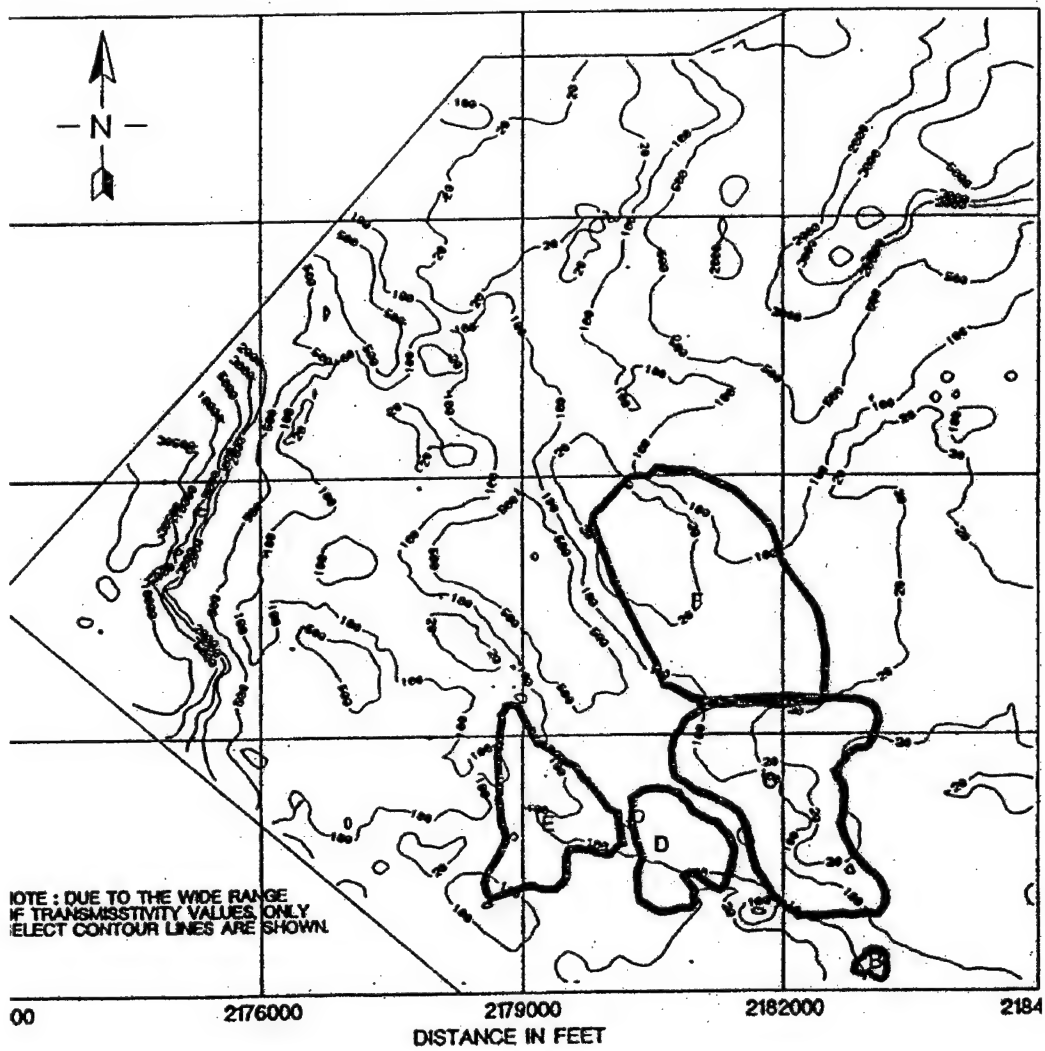


Figure 15. Model area transmissivity

vegetated areas at RMA. Other studies resulted in an estimated infiltration rate of 1.41 in. per year for similar conditions. For this modeling study an infiltration rate of 0.9 to 1.3 in. per year is applied to the model during steady-state calibration. The infiltration rate applied to the model domain is represented by an areal water flux of 0.0003 to 0.0002 ft/day/ft². Higher surface elevations have the rate of 0.0002 ft/day/ft², and lower surface elevations have the rate of 0.0003 ft/day/ft². This approach is consistent with the fact that lower surface elevations receive more precipitation runoff and have more infiltration. The surface elevation within the model domain slopes downward from east to west, and infiltration rates are applied accordingly. The water flux values are multiplied by the area of each element and applied over the model domain.

The second recharge source considered is from the basins within the model area. The infiltration recharge quantities from Basins B through F used for the initial calibration run were taken from the Revised Regional Model (HLA et al. 1990) and are summarized in Table 1. In order to improve the steady-state calibration, it was necessary to reduce the basin infiltration recharge rate within the model area to zero. The only recharge from these basins within the model area is from precipitation infiltration, which is consistent with the fact that the basins were no longer in use in 1990. Basin F has no precipitation infiltration recharge because the basin was lined before 1990. The infiltration associated with Basin F is collected as runoff and discharged. The Basin F runoff discharge rate is applied with the Denver sands recharge rate located near the basin.

Table 1 Basin Recharge Infiltration Rates			
Recharge Basin	Area (acres)	Recharge (cfs)	Infiltration (ft/day)
B	1.77	0.006	0.006724
C	78	0.0	0.0
D	20	0.034	0.0033719
E	29.4	0.0	0.0
F	92.7	0.0	0.0

The third recharge source that was considered is the influx of water from the Denver Fm underlying the UFS. Interactions between the Denver Fm and the UFS is probably the least understood hydrogeologic process at RMA. The recharge of water to the UFS from the underlying bedrock subcropping sands is represented by an areal flux into the UFS. The locations of Denver Fm subcrops within the study area were identified from maps delineating subcrop areas for bedrock units underlying RMA (Plate 9, FWRIR, Ebasco et al. 1989). The major sand subcrops within the model domain which provide notable quantities of water into the UFS are shown in Figure 16.

The quantity of the prescribed flux from the Denver Fm sands into the UFS used for the initial calibration run was taken from the Revised Regional Groundwater Flow Model (HLA et al. 1990). The flux was changed as a calibration parameter during calibration. The flux calculated by the regional model that represents the total prescribed influx from the Denver Fm into the UFS for the

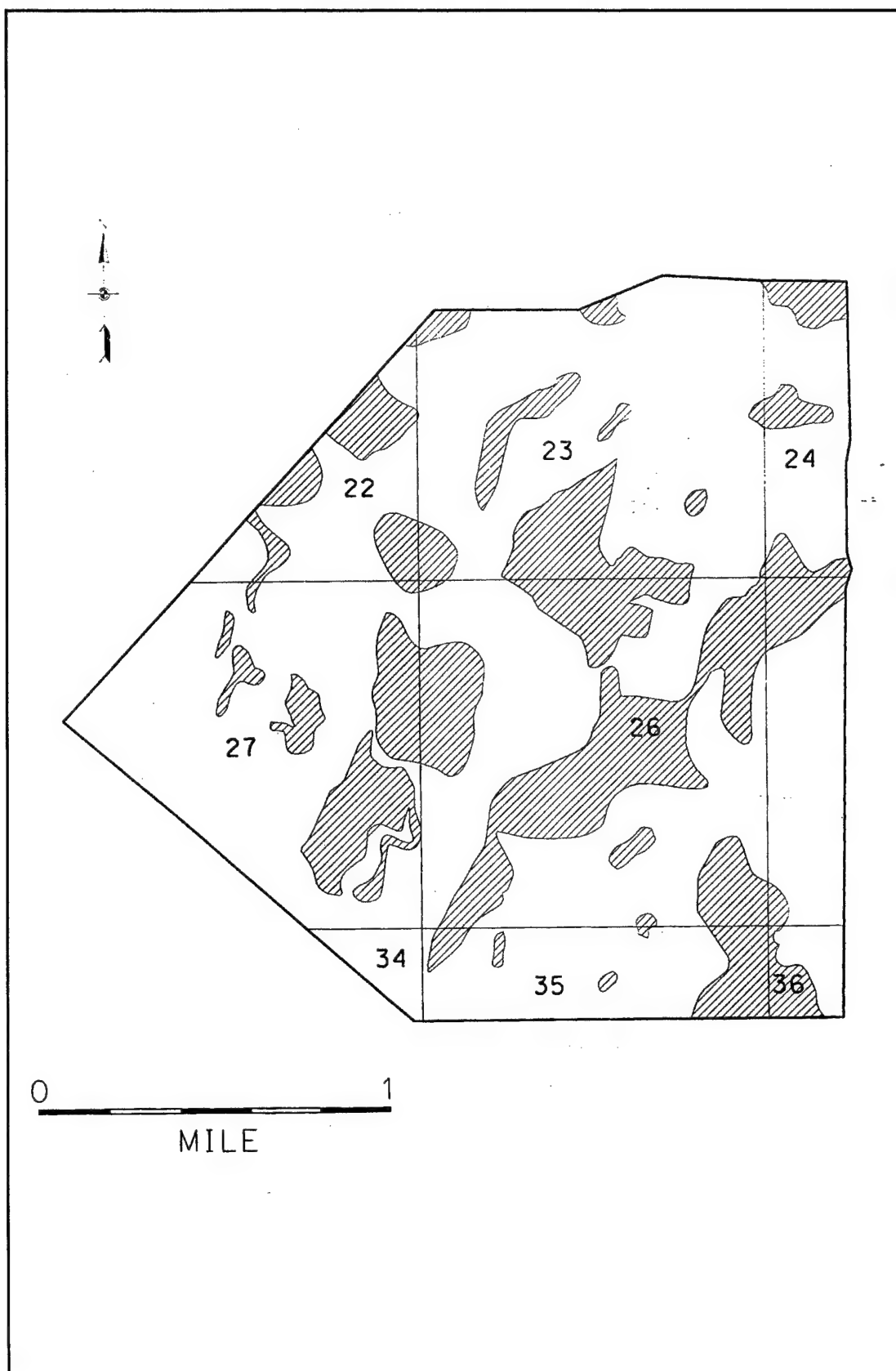


Figure 16. Denver sands subcrops

RMA was taken and equally distributed to the major sand subcrops within the RMA. The total computed inflow to the UFS within the RMA from Denver Fm sources is 0.427 cfs (191 gpm) (HLA et al. 1990). The Denver Fm sand subcrops located within the model domain represented 17 percent of the total RMA sand subcrops; an equivalent percentage of the total prescribed flux was calculated and applied to the sand subcrops for the initial calibration run.

The total inflow to the UFS within the model area from the Denver Fm used for the initial calibration run is 0.0726 cfs (32 gpm). The total inflow to the UFS from the Denver Fm subcropping sands applied in the steady-state calibration is 76 gpm.

Groundwater pumping and injection

There are three operational containment systems within the model domain currently pumping water from the UFS and/or injecting water into the UFS, the NBCTS, NWBCS, and the Basin A Neck Control System. As previously stated, the NWBCS and part of the NBCTS are boundaries of the model domain. The model domain includes pumping wells from the two systems, but the systems' injection wells are outside the model area. Thus these become discharge for the model. The entire Basin A Neck Control System is within the model domain; both the system's pumping and injections wells are represented as nodes within the model. Each well is assigned a nodal identification code, which in turn is assigned a recharge or discharge rate based on the operation of the system. The location of some system wells are too close together for the model grid; because of this some wells have the same identification code. The recharge/discharge rates for ID codes representing more than one well is the sum of the rates for each well. The slurry wall portion of the boundary systems was represented as no flow boundaries.

Well locations along with average pumping and injection rates for each system were taken from the RMA data base. Pumping rates used for model calibration are 85 gpm for the portion of the NBCTS within the model area, and 314 gpm for the NWBCS. The pumping/injection rates for the Basin A Neck System applied for calibration are 16.5 gpm. The well numbers and rates for NBCTS, NWBCS, and Basin A Neck containment system used for steady-state calibration are shown in Tables 2 through 4.

Boundary conditions

The CSU model allows four possible boundary conditions: No-Flow, Prescribed Flux, Constant Head, and General Head. The model boundary corresponding to the NBCTS and NWBCS low-permeability barriers are no-flow boundaries. All other model boundaries are Constant Head boundaries. Constant Head was the boundary condition that best represented the flow through each boundary node based on a constant head boundary condition; those computed fluxes were used to change the southern and western boundaries of the model to a prescribed flux. Boundary conditions resulting from model steady-state calibration consist of three boundary conditions as shown in Figure 17.

Table 2
North Boundary Containment System Pumping Rates for Steady-State Simulation

Well No.	Well ID Code	Rate (gpm)
23301	17	0.190
23302	18	3.762
23303	19	7.452
23304	20	1.794
23305	21	10.671
24306	22	16.546
24307	23	6.370
24308	24	4.401
24309	25	3.712
24310	26	4.728
24311	27	1.126
24312	28	4.421
24313	29	9.219
23330	11	0.002
23331	12	0.001
23332	13	4.401
23333	14	0.405
23334	15	4.356
23335	16	1.238

Table 3
Northwest Boundary Containment System Pumping Rates for
Steady-State Simulation

Well No.	Well ID Code	Rate (gpm)
22301	41	122.00
22302	41	43.72
22303	40	3.23
22304	40	64.34
22305	39	51.84
22306	39	2.06
22307	38	90.98
22308	38	101.33
22309	37	3.78
22310	37	49.28
22311	30	0.03
22312	31	14.17
22313	32	6.72
22314	33	5.16
22315	34	22.34
22316	35	0.00
22317	36	0.00

Table 4
Basin A Neck Containment System Pumping/Recharge Rates for
Steady-State Simulation

Discharge			Recharge ²		
Well No.	Well ID Code	Rate (gpm)	Well No.	Well ID Code	Rate (gpm)
35301	42	0.104	46	Trench A	1.37
35302	43	2.656	47	Trench A	1.37
35303	44	2.132	48	Trench A	1.37
35304	42	1.995	49	Trench A	1.37
35305	43	5.530	50	Trench B	1.37
35306	44	1.368	51	Trench B	1.37
35307	44	0.681	52	Trench B	1.37
23311	45 ¹	2.0	53	Trench B	1.37
			54	Trench C	1.37
			55	Trench C	1.37
			56	Trench C	1.37
			57	Trench C	1.37

¹ Basin F IRA discharge water is represented by ID Code 45.

² The system's recharge water is entered through the Basin A Neck recharge trench system. Each recharge trench is represented by a series of 4 wells.

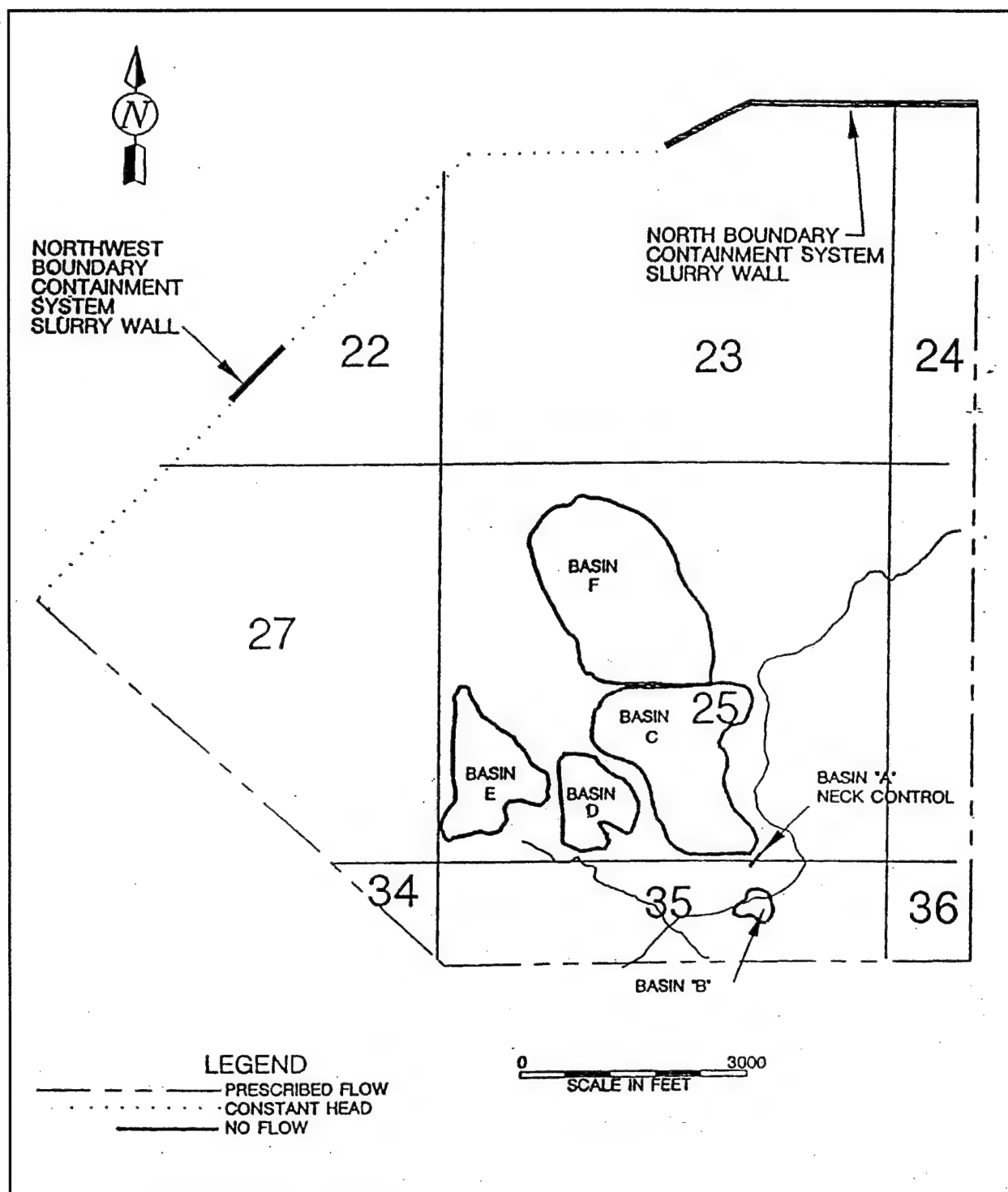


Figure 17. Model boundary conditions

4 Model Steady-State Calibration

The calibration procedure consists of adjusting model parameters so the model-computed water level elevations approximate as closely as possible measured and estimated values of water level elevations that were "observed." The parameter adjusted most during steady-state calibration of the model was hydraulic conductivity. Other parameters adjusted to a lesser degree were the prescribed inflows from the Denver Fm sand subcrops and the saturated thickness of the upper Denver Fm.

Some subareas within the model domain were subject to major changes in hydraulic conductivity during calibration. In an effort to improve model calibration, the saturated alluvium hydraulic conductivity in some areas was changed significantly from the initial values taken from the hydraulic conductivity zonation map. The alluvium nodal hydraulic conductivity used for steady-state calibration of the model is given in Figure 18.

The initial hydraulic conductivity of many major areas of saturated upper Denver Fm (bedrock highs) within the UFS was determined to be too low. Areas of saturated upper Denver Fm appeared to be more weathered than previously thought and, therefore, an increase in hydraulic conductivities was required to calibrate the model to the observed heads in areas of large bedrock highs. The largest hydraulic conductivity applied to areas of upper Denver Fm is 14 ft/day. This value may be considered high when compared with measured hydraulic conductivities for the Denver Fm (FWRIR, Ebasco et al. 1989b). The Regional Groundwater Study of RMA by May (1982) indicated that some areas of severely weathered upper Denver Fm may have hydraulic conductivities as high as 50 ft/day. This high variability in conductivity illustrates the uncertainty of flow parameters in the upper Denver Fm. The upper Denver Fm nodal hydraulic conductivity used for steady-state calibration of the model is given in Figure 19.

Changes in saturated thickness were made to the upper Denver Fm during calibration. The upper Denver Fm saturated thickness in some areas was subject to interpretation and consequently required adjustments. A study is currently being conducted to better determine the base of the UFS, which will affect the saturated thickness of the model area. The preliminary results of that study indicate that the base of the UFS is much lower than previously thought

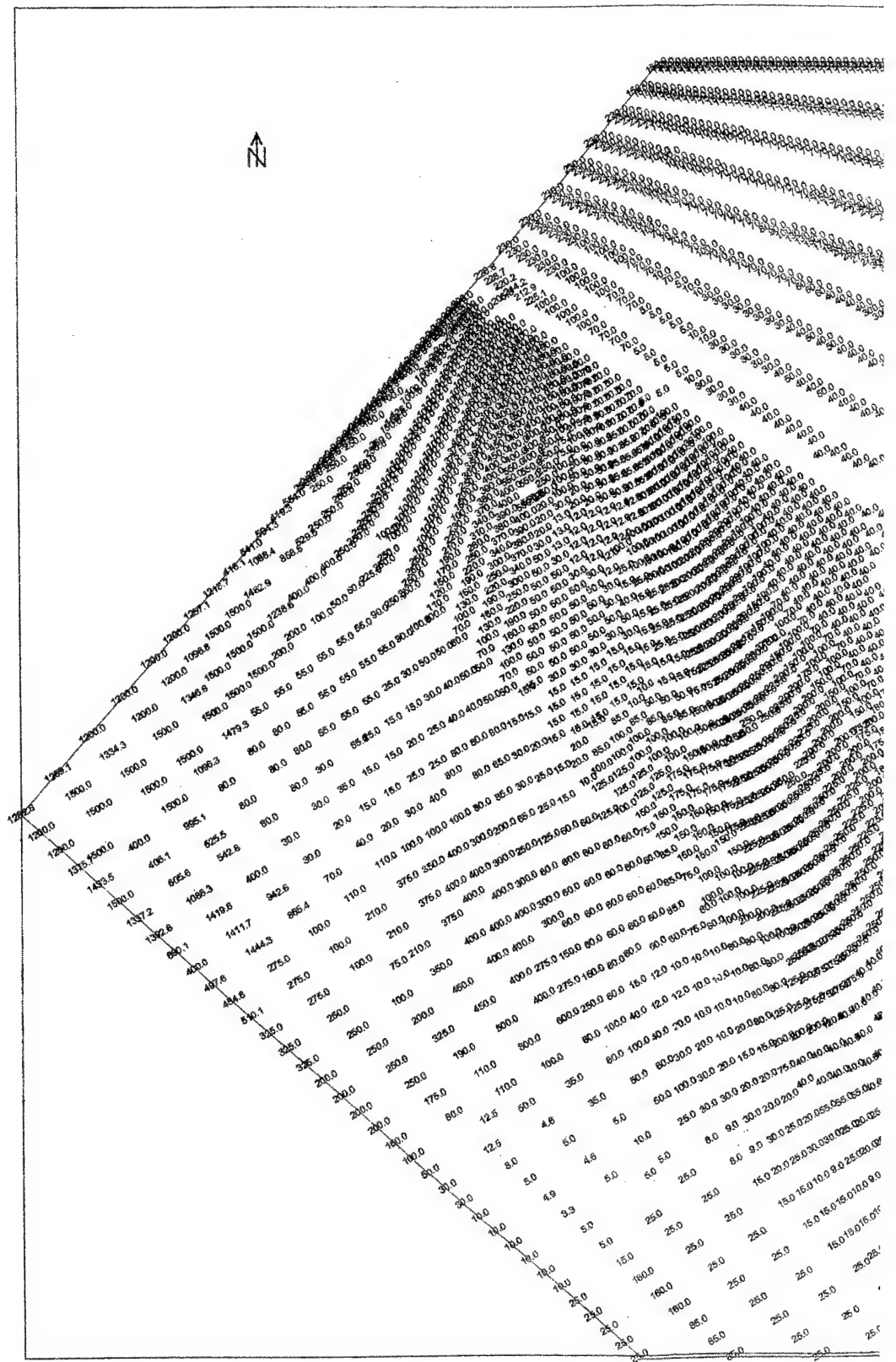
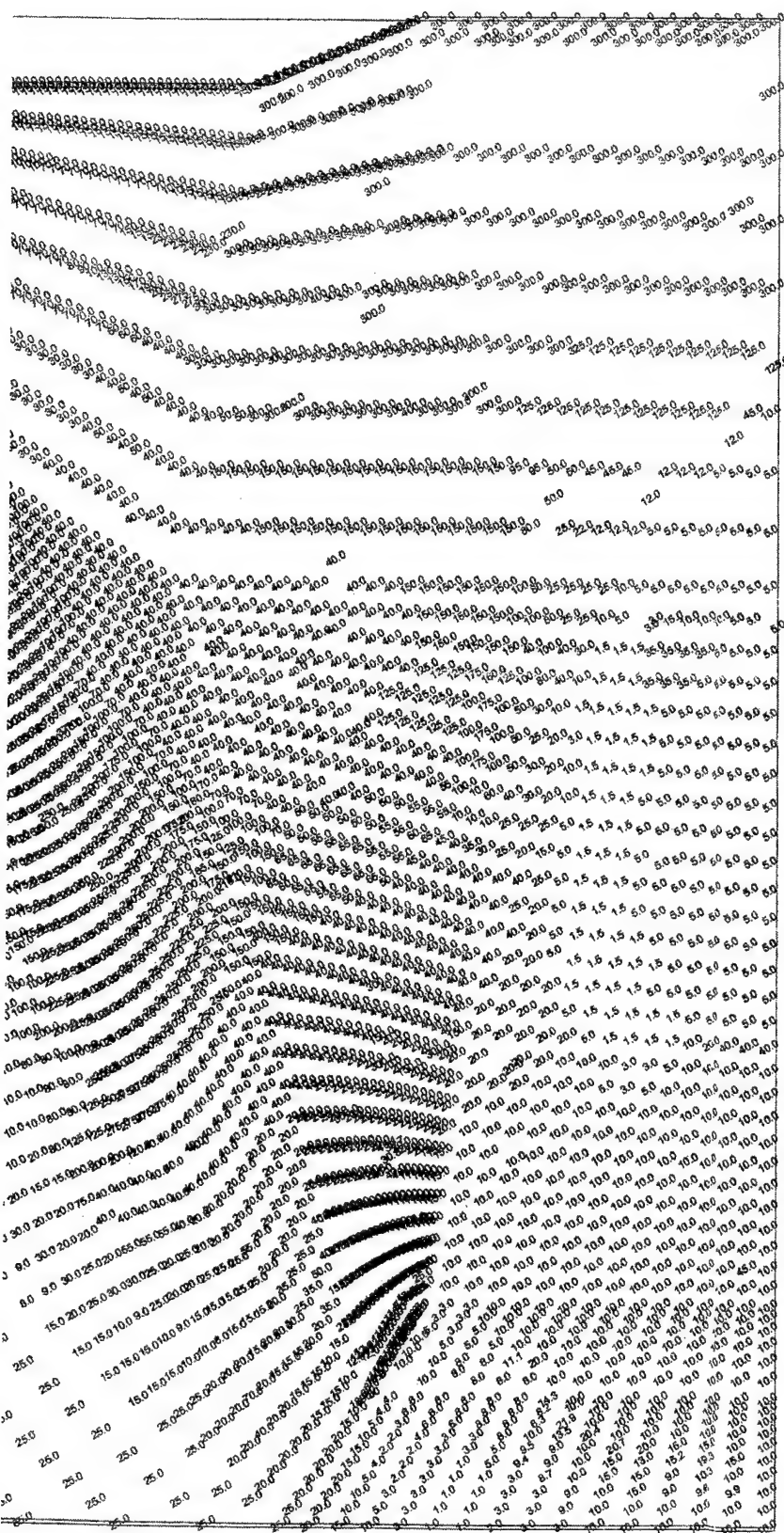


Figure 18. Alluvium model hydraulic conductivity (ft/day)



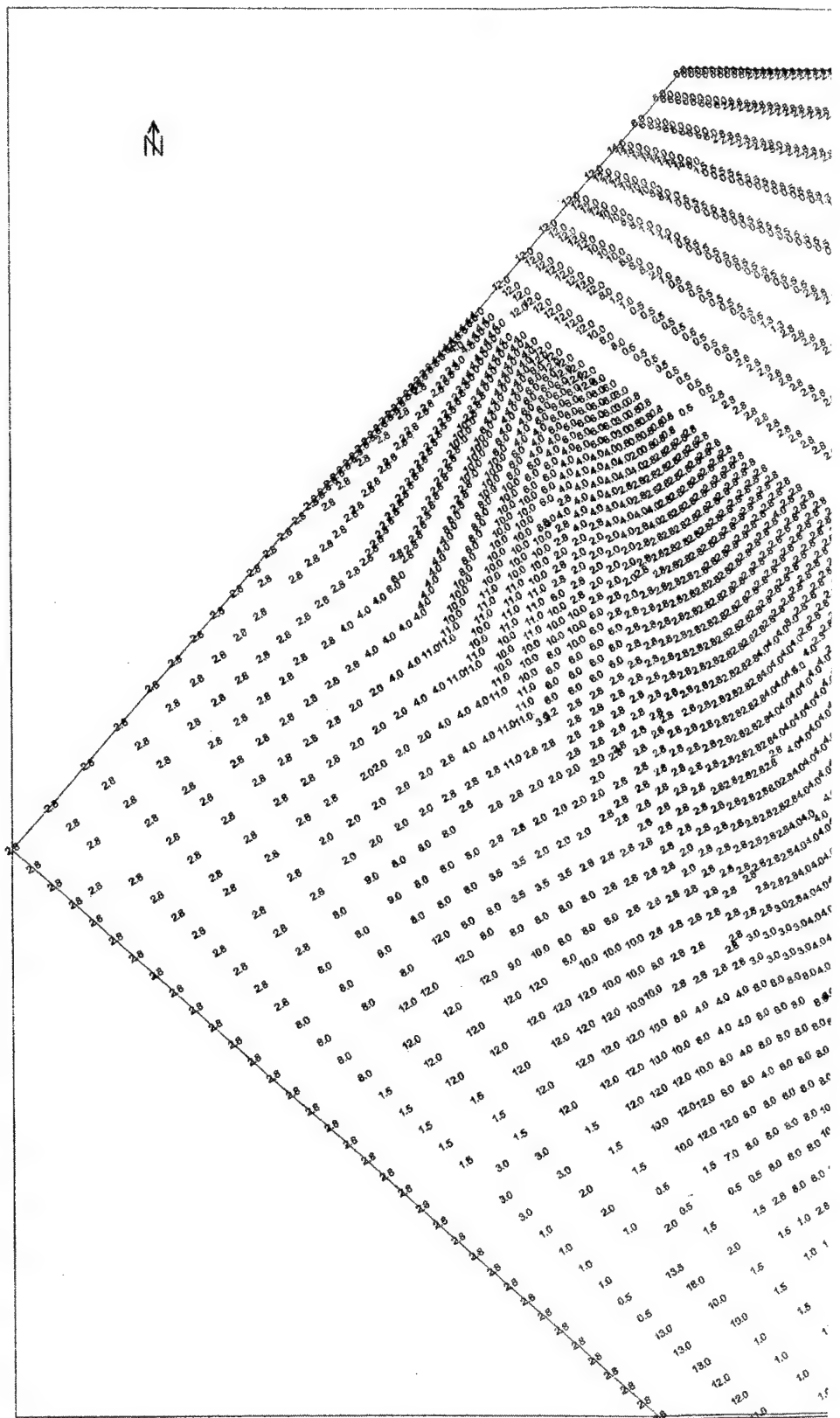
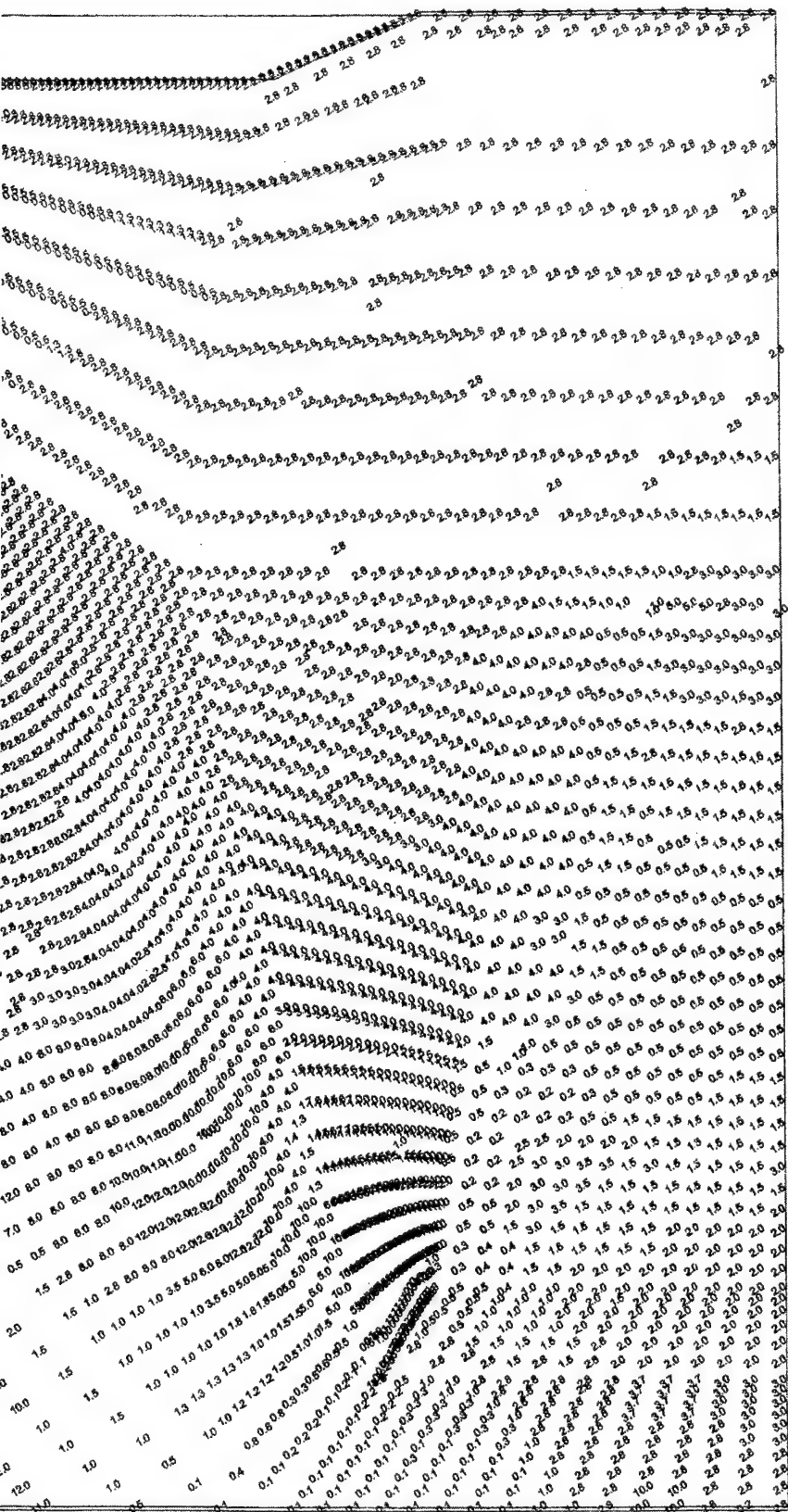


Figure 19. Denver FM model hydraulic conductivity (ft/day)



(Sturdivant 1993). This finding supports the minor changes to the saturated thickness. The saturated thickness of the alluvium and the weathered Denver Fm is given in Figures 20 and 21. The alluvium has areas that are saturated and unsaturated.

Areas of unsaturated alluvium occurring in the summer of 1990 are shown in Figure 22. The areas of unsaturated alluvium resulting from steady-state calibration are shown in Figure 23. A comparison of the two figures indicates that the calibrated model reproduced the summer 1990 unsaturated alluvium areas within previously stated criteria. In some areas of the model domain, the summer 1990 saturated areas are less than 2 ft from being unsaturated, which explains why the two figures have minor differences. The calibrated model water level elevation can be within 2 ft of the observed water level elevation and still change unsaturated areas to saturated areas, and vice versa.

During the calibration process more than 500 runs were made using the method previously described. After the completion of each calibration run, a contour map of the difference (residual) between observed and computed heads was prepared to locate areas where differences remained above plus or minus 3 ft. The residual contour map was overlaid on maps showing the saturated and unsaturated areas, the observed water-level contour, and the most recent hydraulic conductivity so that new adjustments could be made in these parameters for the next run. The model was assumed to be calibrated when the residual values were as low as possible and further runs did little to decrease the residual, and when the following criteria were met:

- a. Ninety-five percent of all observation wells were within plus or minus 3 ft of their observed values (Table 5).
- b. The mass balance was within 95 percent (Table 6).
- c. The groundwater flows across the NBCTS, NWBCS, and the Basin A Neck system were within 95 percent of observed flows.

The computed heads from the model calibration shown in Figure 24 is a reasonable duplication of the observed heads shown in Figure 13 and the general flow pattern of the groundwater. A contour map of the differences between observed and computed heads, referred to as the calibration residual map, for the calibrated model is shown in Figure 25. Positive areas indicate where the model-computed heads are greater than observed heads, and negative values indicate locations where computed heads are less than observed heads.

Flow Paths

The particle tracking algorithm of the model was used to determine some groundwater flow paths within the model area. Several flowlines or streamlines indicating groundwater flow paths taken by particles of water moving through the model domain have been generated with the steady-state calibrated

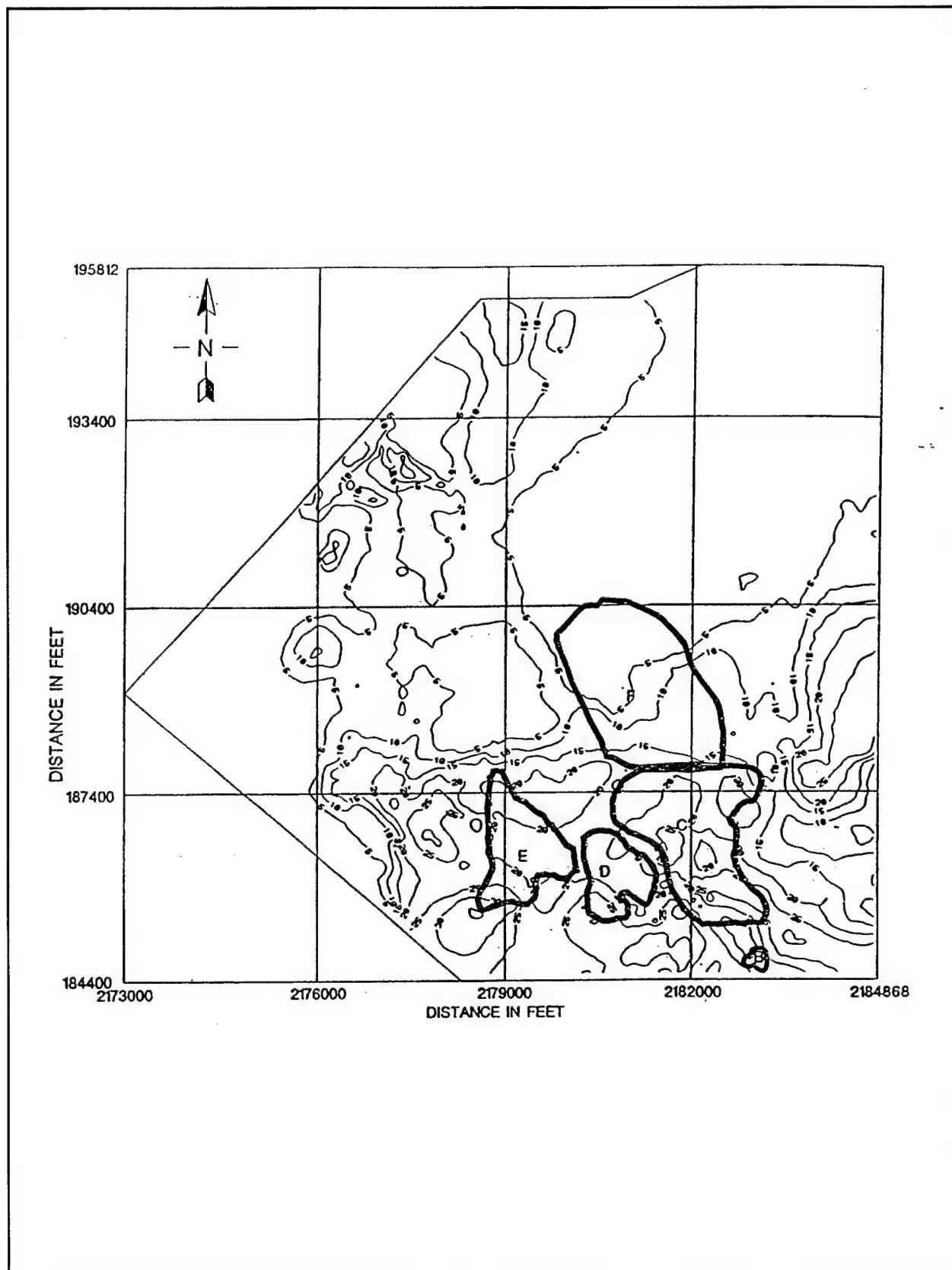


Figure 20. Denver Fm saturated thickness

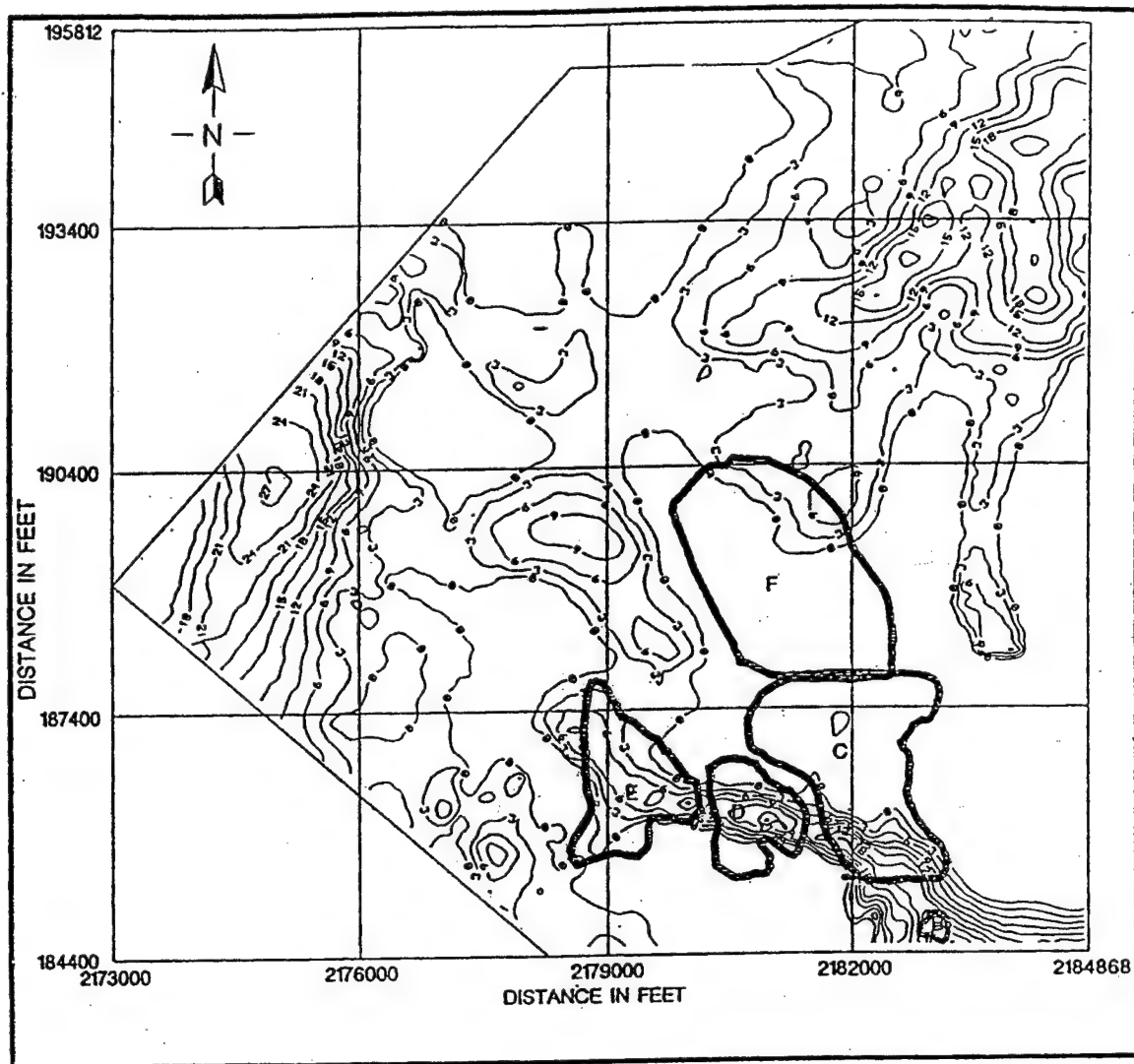


Figure 21. Alluvium saturated thickness

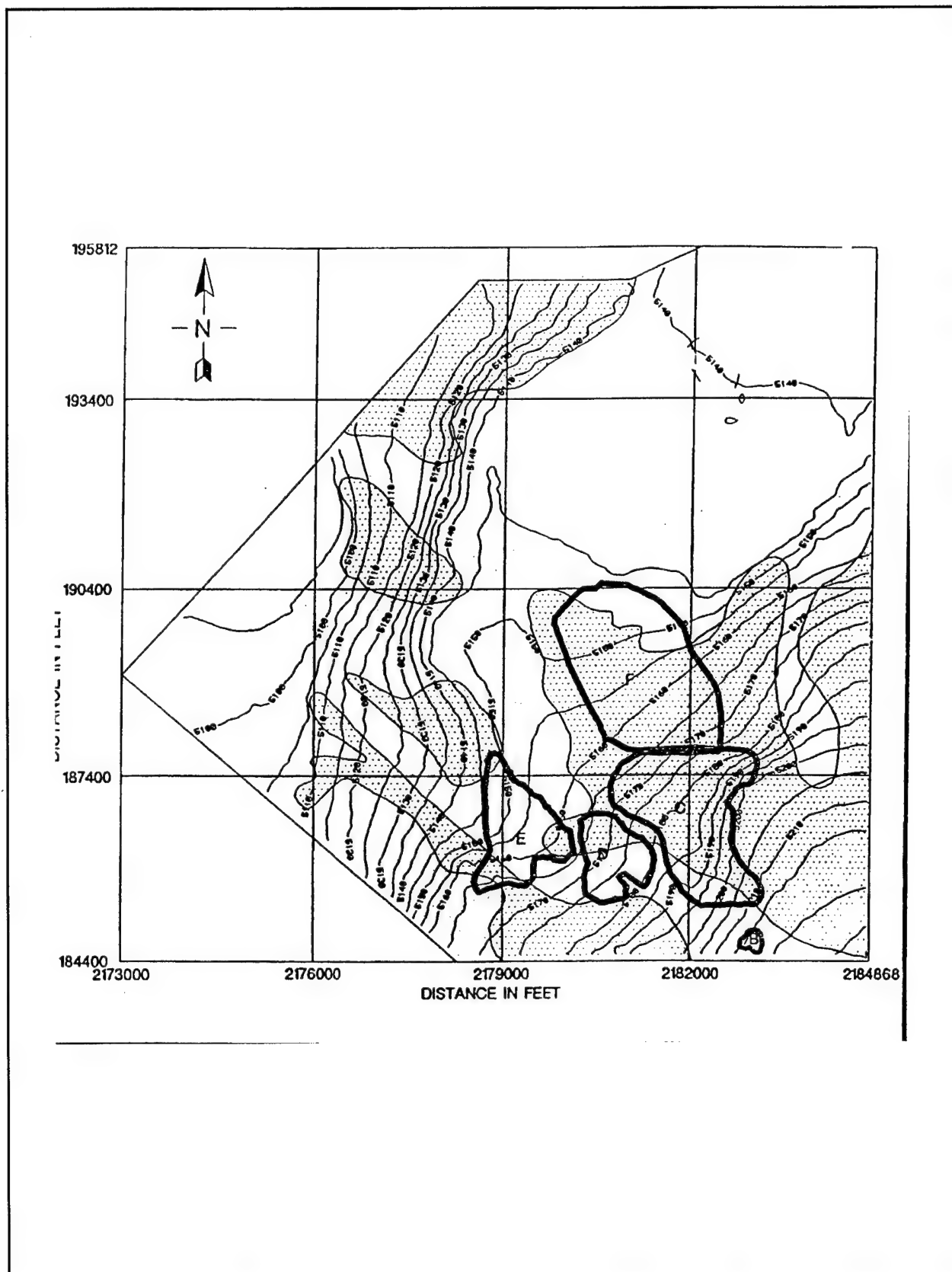


Figure 22. Summer 1990 unsaturated alluvium

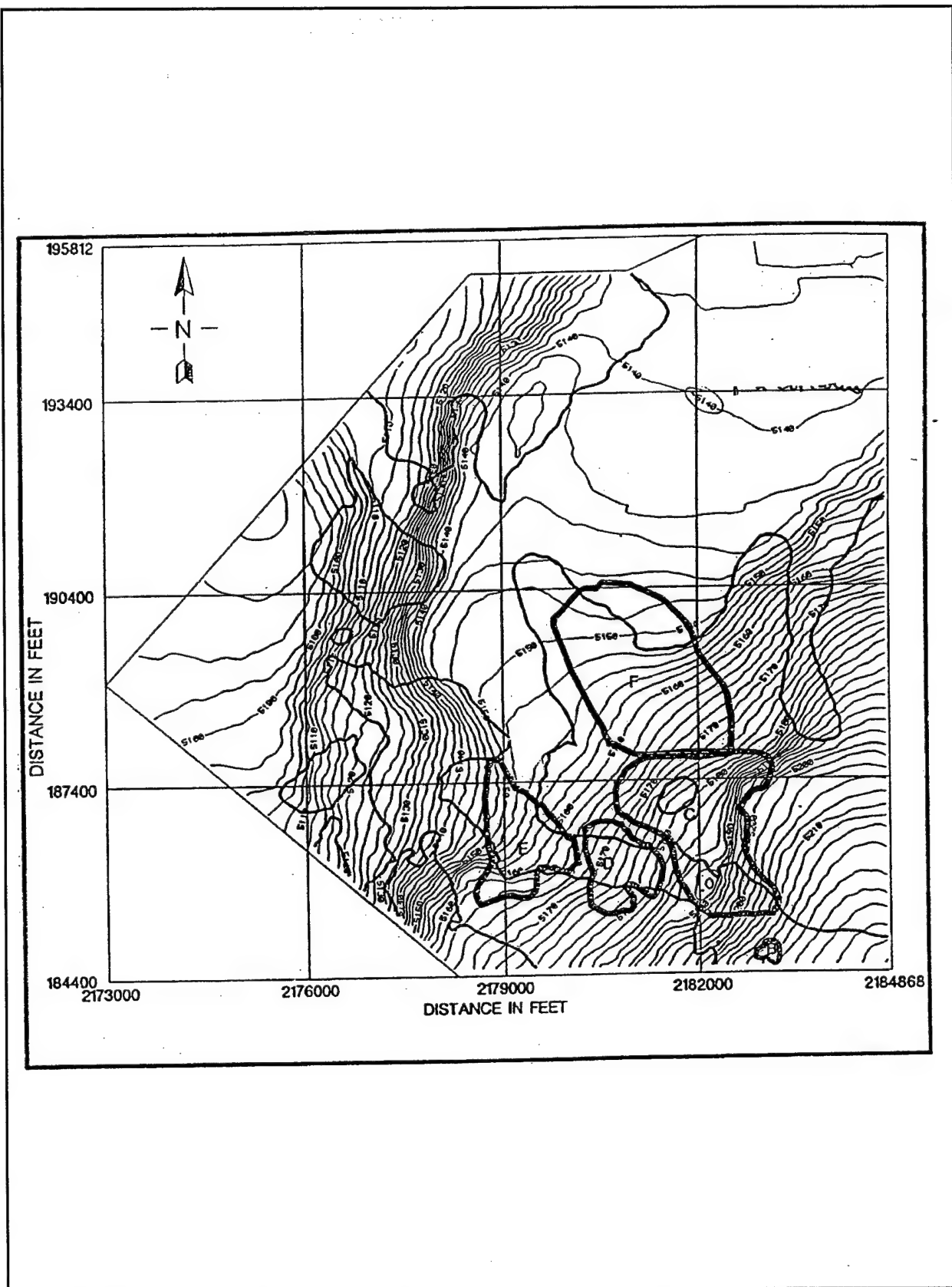


Figure 23. Unsaturated alluvium area from model calibration

Table 5
Observation Wells

Observation Well No.	Steady State Calibration			Transient Calibration		
	Observed Head ft	Calculated Head ft	Head Diff. ft	Observed Head ft	Calculated Head ft	Head Diff. ft
22012	5143.50	5140.63	2.87	5143.47	5141.04	2.43
22025	5109.27	5109.64	-0.37	5109.18	5108.90	0.28
22043	5092.42	5092.31	0.11	5091.86	5092.32	-0.46
22049	5110.36	5110.29	0.07	5110.01	5108.95	1.06
22052	5090.94	5093.38	-2.44	5090.26	5092.43	-2.17
22054	5111.90	5114.35	-2.45	5111.38	5112.70	-1.32
23013	5141.02	5139.39	1.63	5138.24	5140.63	-2.39
23058	5140.12	5139.37	0.75	5139.10	5140.81	-1.71
23085	5139.60	5138.07	1.53	5138.25	5139.54	-1.29
23096	5140.50	5140.77	-0.27	5138.97	5141.66	-2.69
23122	5136.30	5135.94	0.36	5135.63	5138.17	-2.54
23134	5139.82	5139.60	0.22	5138.18	5140.63	-2.45
23135	5145.00	5143.49	1.51	5144.10	5144.84	-0.74
23150	5139.10	5137.82	1.28	5138.05	5139.34	-1.29
23179	5140.26	5140.85	-0.59	5139.86	5141.86	-2.00
23182	5112.80	5115.02	-2.22	5112.84	5114.97	-2.13
23185	5144.70	5141.84	2.86	5139.99	5142.58	-2.59
23188	5140.15	5140.12	0.03	5138.70	5141.31	-2.61
23191	5140.37	5142.38	-2.01	5139.98	5142.98	-3.00
23223	5138.80	5138.87	-0.07	5137.20	5139.74	-2.54
24010	5140.20	5141.81	-1.61	5139.59	5142.36	-2.77
24092	5139.10	5141.70	-2.60	5139.24	5142.01	-2.77
24122	5157.06	5154.13	2.94	5155.85	5152.94	2.91
24200	5138.17	5138.76	-0.59	5137.56	5138.94	-1.38
25022	5213.78	5212.74	1.04	5212.73	5212.88	-0.15
25028	5180.40	5178.78	1.62	5179.11	5179.16	-0.05
26010	5161.95	5163.73	-1.78	5161.76	5164.11	-2.35
26015	5144.52	5145.64	-1.12	5145.66	5145.55	0.11
26017	5145.19	5147.67	-2.48	5145.45	5148.20	-2.75
26020	5149.17	5149.26	-0.09	5148.65	5149.73	-1.08
26040	5147.03	5148.36	-1.33	5147.03	5147.32	-0.29
26041	5145.37	5145.94	-0.57	5145.79	5145.65	0.14
26046	5145.30	5144.73	0.57	5145.68	5144.61	1.07
26049	5150.71	5150.76	-0.05	5150.88	5151.19	-0.31
26050	5156.97	5154.08	2.89	5156.92	5154.45	2.47
26062	5163.07	5160.09	2.98	5162.27	5160.52	1.75

(Continued)

Table 5 (Concluded)						
Observation Well No.	Steady State Calibration			Transient Calibration		
	Observed Head ft	Calculated Head ft	Head Diff. ft	Observed Head ft	Calculated Head ft	Head Diff. ft
26063	5182.16	5185.03	-2.88	5183.15	5185.58	-2.43
26065	5161.70	5160.95	0.75	5161.12	5161.89	-0.77
26068	5158.96	5159.38	-0.42	5159.03	5159.96	-0.93
26073	5176.95	5178.99	-2.04	5176.06	5178.17	-2.12
26076	5151.19	5151.22	-0.03	5151.41	5151.78	-0.37
26081	5148.00	5147.39	0.61	5147.43	5147.71	-0.28
26083	5150.20	5149.13	1.07	5152.55	5149.61	2.94
26085	5179.38	5178.47	0.91	5178.84	5179.07	-0.23
26088	5142.91	5144.81	-1.91	5142.30	5145.09	-2.79
26124	5154.31	5154.45	-0.15	5154.41	5153.34	1.07
26133	5146.14	5146.42	-0.28	5146.72	5145.95	0.77
26143	5174.73	5174.56	0.17	5173.80	5173.88	-0.08
26159	5201.04	5199.01	2.03	5199.75	5198.85	0.90
26160	5143.90	5144.35	-0.45	5144.46	5144.33	0.13
26166	5151.44	5152.65	-1.20	5151.11	5152.79	-1.68
26168	5155.51	5157.33	-1.82	5155.80	5158.26	-2.46
26169	5148.09	5149.43	-1.34	5148.27	5149.46	-1.19
26170	5140.77	5142.71	-1.94	5141.82	5143.32	-1.50
26173	5147.71	5148.97	-1.26	5148.60	5148.18	0.42
27003	5097.70	5097.46	0.24	5097.81	5097.68	0.13
27017	5148.10	5145.82	2.28	5147.63	5145.76	1.87
27019	5148.53	5145.58	2.95	5148.06	5145.48	2.58
27024	5125.80	5125.96	-0.16	5124.79	5126.53	-1.74
27040	5120.80	5120.91	-0.11	5119.70	5120.86	-1.16
27041	5113.70	5112.14	1.56	5112.72	5113.98	-1.26
27051	5128.30	5126.25	2.05	5128.39	5126.01	2.38
27056	5098.40	5097.59	0.81	5097.33	5097.53	-0.20
27059	5127.30	5126.71	0.59	5126.41	5126.64	-0.23
27064	5093.69	5093.52	0.17	5093.25	5093.57	-0.32
27072	5095.80	5095.80	-0.01	5095.75	5096.06	-0.31
27073	5097.90	5098.79	-0.89	5097.93	5098.98	-1.05
27080	5120.00	5117.14	2.86	5119.07	5118.03	1.04
27084	5136.40	5138.70	-2.30	5135.82	5138.49	-2.67
35031	5174.21	5172.79	1.42	5173.22	5172.54	0.68
35040	5165.08	5162.63	2.45	5164.40	5162.94	1.46
35048	5216.78	5213.85	2.93	5216.27	5214.46	1.81
35079	5197.98	5196.61	1.37	5199.06	5198.85	0.21
35091	5182.20	5184.75	-2.55	5182.04	5184.98	-2.94

Table 6 Steady-State Mass Balance		
Item	Recharge rate (gpm)	Discharge rate (gpm)
Precipitation	128.28	
Denver Sands	82.8	
Boundary Inflow	622.64	434.26
Basin A Neck Containment System	14.46	14.46
North Boundary Containment Treatment System		84.6
Northwest Boundary Containment System		314.69
Basin F IRA	2.0	2.0
Total	850.21	850.21

model. The particles move through the model domain by using computed velocity vectors from each node. Forty separate particles were released in the model domain. The resulting flowlines are shown in Figure 26. The release point for each particle was selected so that the resulting flowlines would generally follow major groundwater flow routes. The flowlines indicate that the model can generally predict contaminant flow paths within the model domain.

Water Budget

The water budget under steady-state conditions is based on various inflow and outflow components within the model area. The hydrologic budget results illustrate which inflow and outflow components have an impact on the model area.

The largest source of recharge water into the model area is boundary inflow (underflow), which accounts for 73 percent of all recharge water. The remaining 27 percent of recharge water is from precipitation (16 percent), Denver Fm sands (9 percent), and the Basin A Neck containment system (2 percent), respectively.

The water budget indicates that the largest discharge mechanisms are boundary outflow (underflow), which accounts for 50 percent of all discharge water. The remaining 50 percent of discharge water is to the NWCS (38 percent), NBCTS (10 percent), and the Basin A Neck Containment System (2 percent). These results confirm that the containment systems have a major influence on the total flow system within the model domain.

Boundary inflow (underflow) accounts for the largest amount of both recharge and discharge within the model area. The boundary volumetric flows were computed by the model based on a constant head boundary condition. A summary of the inflow and outflow components affecting the groundwater flow is shown in Table 6. The flow components and their relative locations are

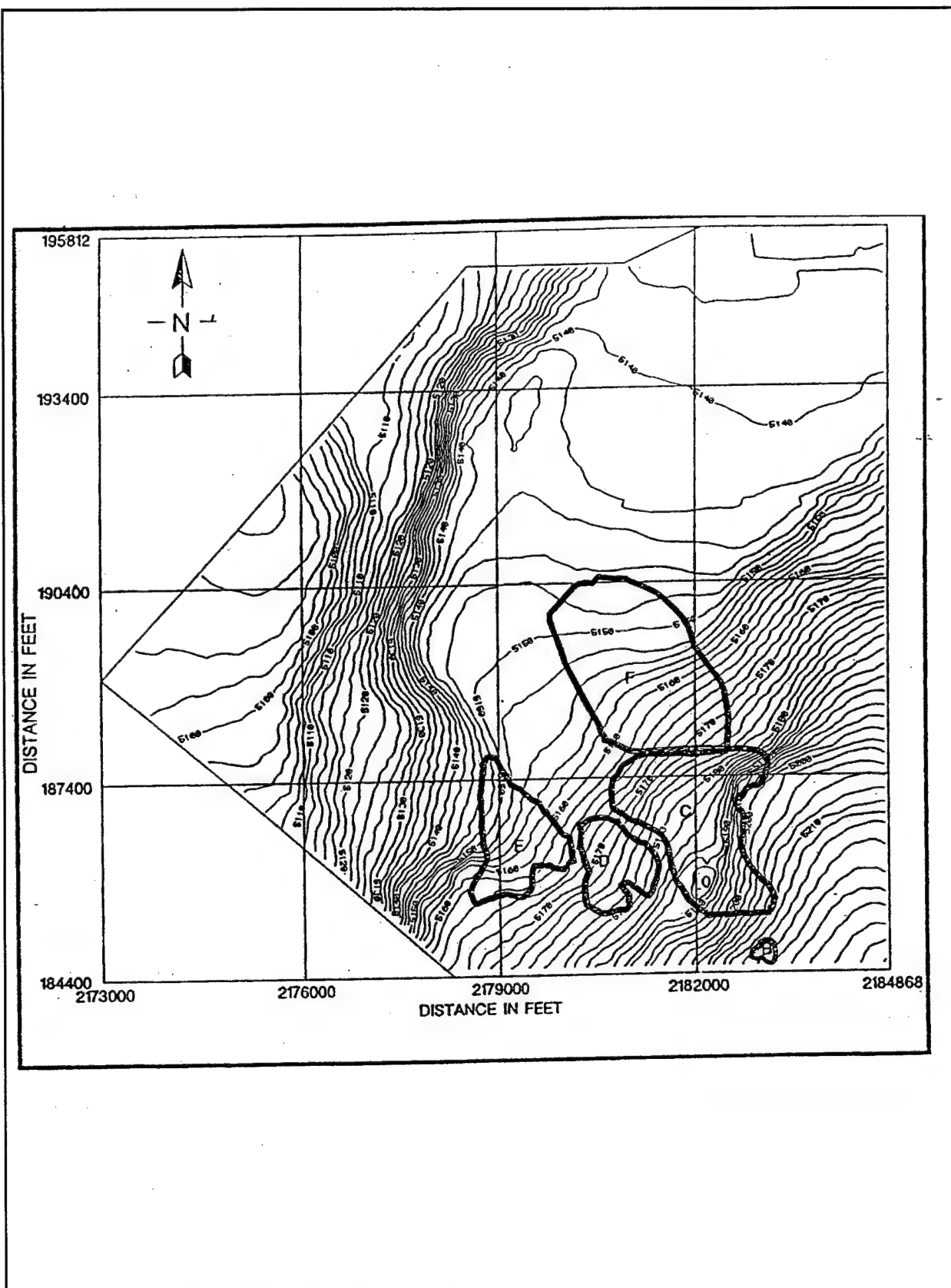


Figure 24. Computed heads from model calibration

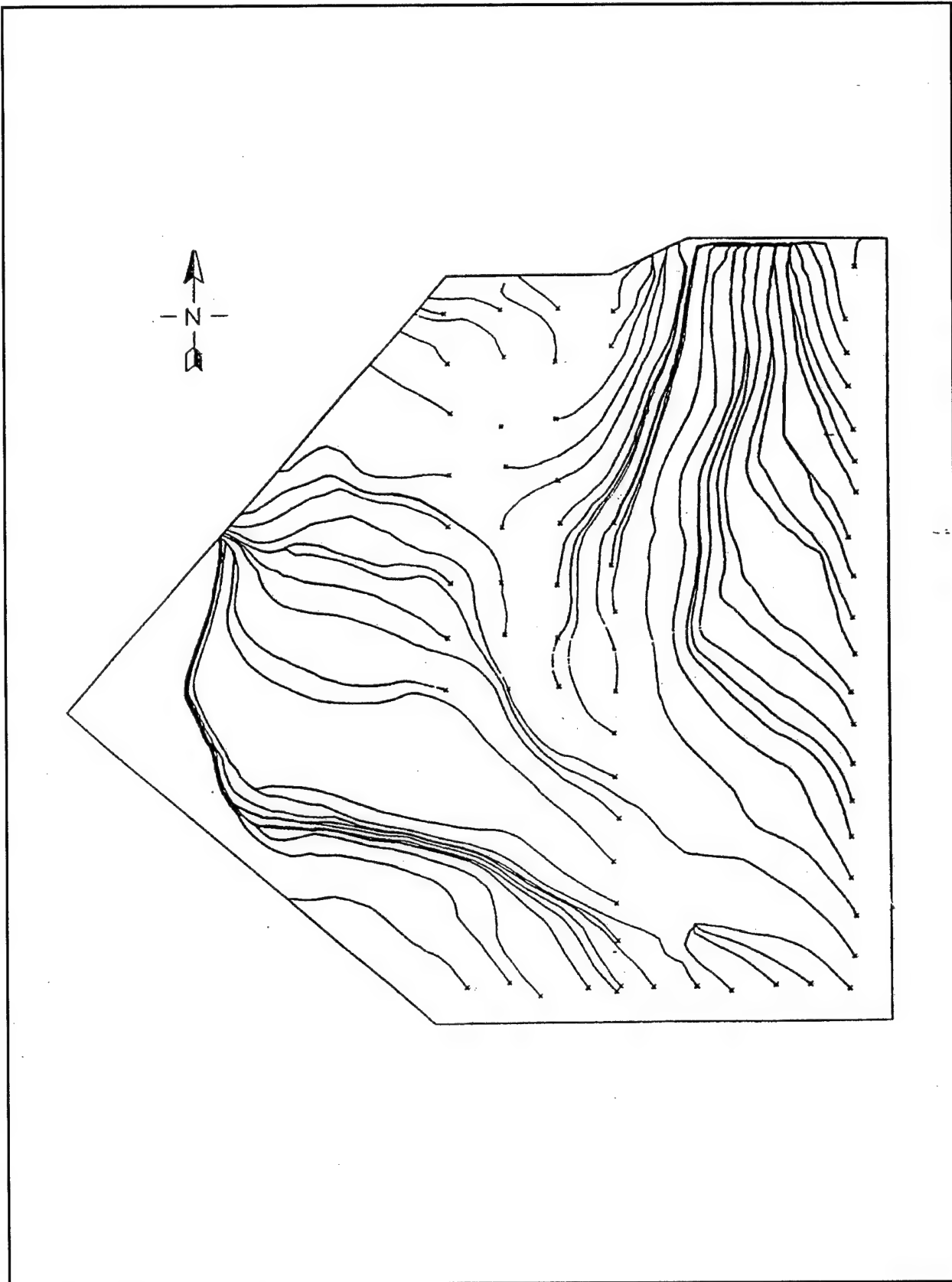


Figure 26. Model groundwater flowlines

shown graphically in Figure 27 which illustrates the flows entering and exiting the model area from recharge sources, boundary containment systems, and model boundaries.

Calibration Results

The steady-state model calibration resulted in flow paths, mass balance, and fluxes across contamination control systems that are realistic and that compare well with previous work. The results from the calibration of the Basin F Sub-regional Model are acceptable as measured by the criteria provided by Ebasco. The results of the model based on the criteria used are provided in detail within this report. A copy of the steady-state calibration input data file is given in Appendix B. Based on the successful results of the steady-state calibration, a transient calibration of the model was performed.

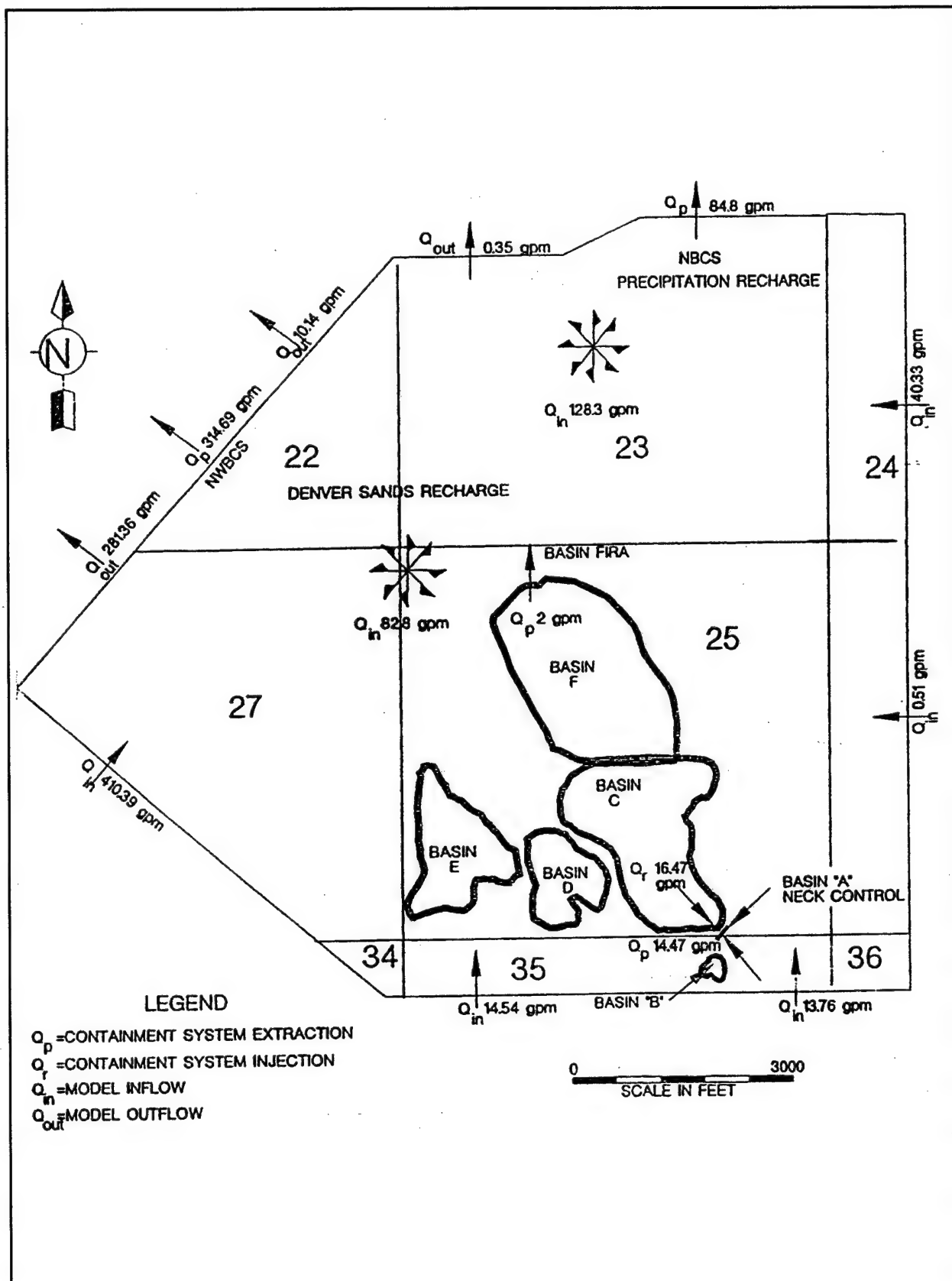


Figure 27. Steady-state mass balance

5 Transient Model Calibration

The reliability of parameters used for steady-state calibration of the ground-water model can be verified with transient simulations. Unlike the steady-state calibration, transient simulations, which indicate how the hydrologic system will respond to stress require that water levels change with time. Therefore, the steady-state calibration data must be converted to transient data. The transient calibration procedure consists of the following steps:

- a. *Determine the time parameters for the transient calibration simulations.*
The parameters include the length of the calibration simulation, the length of the stress period, the length of the time step, and a multiplication factor for increasing the size of the time step. The length of the simulation determines the time period to calibrate the model. The time period selected is usually based on the amount of data available on the model area. The time period selected for the transient calibration of this model is the 2nd quarter of the 1992 Fiscal Year (FY). The length of the simulation is one and a half years. The length of the stress period is quarterly (90 days), the time step is 1 hr, and the time multiplication factor is 1.5.
- b. *Collect and adjust input data.* All parameters (input data) that have changed over time, and parameters not applied for steady-state calibration but are required for transient calibration were collected. The data collected consist of measured (observed) well water-level elevations, measured and estimated recharge/discharge values, and estimated storage coefficients. The observed head values for the 74 wells that the model will attempt to match during transient calibration are shown in Table 5. The observation well water level elevation data were provided by DP Associates, Inc. The measured pumping and injection rates for the NBCTS, NWBCS, and Basin A Neck containment system used for transient calibration are shown in Tables 7 through 9. Measured precipitation values used for model calibration are shown in Table 10. Table 11 summarizes the transient mass balance. Precipitation data were provided by RMA and compiled as part of their ongoing precipitation data collection program. The storage coefficients used for model calibration range from 0.05 to 0.25. The North Boundary Model Report reference indicated that results from long term (72 hr) pump testing produced a range of storage coefficient values from 0.25 down to 0.001.

Table 7
North Boundary Containment System Pumping Rates for Transient Simulation

Well No.	Well ID Code	Rate (gpm)					
		FY 91 QTR 1	FY 91 QTR 2	FY 91 QTR 3	FY 91 QTR 4	FY 92 QTR 1	FY 92 QTR 2
23301	17	0.250	0.250	0.250	0.250	0.189	0.350
23302	18	2.775	2.775	2.775	2.775	0.000	0.350
23303	19	3.875	3.875	3.875	3.875	7.490	6.800
23304	20	3.450	3.450	3.450	3.450	0.489	7.000
23305	21	5.800	5.800	5.800	5.800	0.000	1.600
24306	22	7.775	7.775	7.775	7.775	0.031	0.000
24307	23	11.43	11.43	11.43	11.43	0.092	8.000
24308	24	1.246	1.246	1.246	1.246	0.092	0.000
24309	25	1.173	1.173	1.173	1.173	0.092	0.000
24310	26	2.052	2.052	2.052	2.052	0.092	0.000
24311	27	2.346	2.346	2.346	2.346	15.01	0.000
24312	28	4.032	4.032	4.032	4.032	0.000	1.000
24313	29	15.98	15.98	15.98	15.98	0.000	0.650
23334	15	1.300	1.300	1.300	1.300	0.000	0.000

- c. *Adjust and update boundary conditions.* Constant-head nodes were assigned as boundary conditions for the steady-state calibration of the model. Constant-head boundary nodes were changed to prescribed flux nodes to fix the amount of underflow through the boundaries during the application of changing stresses associated with the operation of the containment systems. The boundary fluxes used for the transient simulation were calculated by the model.
- d. *Calibration of the model.* Data inputs were made, boundary conditions were adjusted, and model transient calibration simulations were performed. Model adjustable parameters were adjusted so the model-computed heads approximate as closely as possible measured (observed) monitor well head values. When 95 percent of all observation wells had a residual value within plus or minus 3 ft and previously stated criteria were met, the model was considered calibrated.

Table 8 Northwest Boundary Containment System Pumping/Recharge Rates for Transient Simulation							
Well No.	Well ID Code	Rate (gpm)					
		FY 91 QTR 1	FY 91 QTR 2	FY 91 QTR 3	FY 91 QTR 4	FY 92 QTR 1	FY 92 QTR 2
Pumping							
22301	41	47.40	47.76	16.54	3.08	8.66	17.25
22302	41	47.40	47.76	16.54	3.08	8.66	17.25
22303	40	20.03	1.27	23.32	14.78	25.04	26.09
22304	40	20.03	1.27	23.32	14.78	25.04	26.09
22305	39	0.01	0.01	0.00	21.15	16.90	14.19
22306	39	0.01	0.01	0.00	21.15	16.90	14.19
22307	38	33.71	38.88	30.41	22.06	32.07	31.27
22308	38	33.71	38.88	30.41	22.06	32.07	31.27
22309	37	15.38	15.45	44.24	26.25	27.60	29.75
22310	37	15.38	15.45	44.24	26.25	27.60	29.75
22311	30	0.04	0.02	0.19	0.19	0.205	0.157
22312	31	30.20	36.86	33.05	25.98	28.41	22.15
22313	32	19.71	24.47	14.55	0.00	22.43	25.45
22314	33	0.51	0.00	0.0015	0.00	7.17	19.70
22315	34	37.13	43.42	41.06	38.58	42.55	28.98
22316	35	35.08	7.52	0.37	0.00	0.00	0.87
22317	36	34.76	29.66	28.92	3.15	2.14	2.06
Recharge							
27422	58	0.00	0.00	0.00	36.90	17.90	50.10
27423	58	0.00	0.00	0.00	81.60	62.60	35.50
27424	59	0.00	0.00	0.00	54.80	76.60	79.60
27425	59	0.00	0.00	0.00	73.10	69.80	67.60

Transient Calibration Results

The results from the transient calibration of the Basin F Subregional Groundwater Model are acceptable, as measured by the previously stated criteria. The model calibration resulted in a close approximation of the measured head values of 74 observation wells. The parameter adjusted during the transient calibration of the model was the storage coefficient. The residual values for the 74 observation wells are given in Table 5. All wells are within the 3 ft criteria. A copy of the transient calibration input data file is given in Appendix C. Transient calibration of the Basin F Groundwater Model adds validity to the parameters and input data used for the modeling effort.

Table 9
Basin A Neck Containment System Pumping/Recharge Rates for
Transient Simulation

Well No.	Well ID Code	Rate (gpm)					
		FY 91 QTR 1	FY 91 QTR 2	FY 91 QTR 3	FY 91 QTR 4	FY 92 QTR 1	FY 92 QTR 2
Pumping							
35301	42	1.628	1.140	1.265	1.165	0.461	0.329
35302	43	3.440	2.408	2.673	2.465	2.693	1.925
35303	44	1.131	0.792	0.878	0.809	1.359	0.970
35304	42	1.628	1.140	1.265	1.165	0.461	0.329
35305	43	3.440	2.408	2.673	2.465	2.693	1.925
35306	44	1.131	0.792	0.878	0.809	1.359	0.970
35307	44	1.131	0.792	0.878	0.809	1.359	0.970
23311	45 ¹	0.007	0.030	0.340	0.030	1.13061	1.500
Recharge ²							
46	Trench A	0.189	0.146	0.180	0.187	0.298	0.338
47	Trench A	0.189	0.146	0.180	0.187	0.298	0.338
48	Trench A	0.189	0.146	0.180	0.187	0.298	0.338
49	Trench A	0.189	0.146	0.180	0.187	0.298	0.338
50	Trench B	0.474	0.366	0.450	0.468	0.348	0.438
51	Trench B	0.474	0.366	0.450	0.468	0.348	0.438
52	Trench B	0.474	0.366	0.450	0.468	0.348	0.438
53	Trench B	0.474	0.366	0.450	0.468	0.348	0.438
54	Trench C	0.259	0.200	0.245	0.256	0.234	0.294
55	Trench C	0.259	0.200	0.245	0.256	0.234	0.294
56	Trench C	0.259	0.200	0.245	0.256	0.234	0.294
57	Trench C	0.259	0.200	0.245	0.256	0.234	0.294
¹ Basin F IRA discharge water is represented by ID Code 45.							
² The system's recharge water is entered through the Basin A Neck recharge trench system. Each recharge trench is represented by a series of 4 wells.							

Table 10						
Transient Precipitation Rates						
Period	Total Precipitation		Infiltration Rates			
	in.	ft/day	High Elevation (8.28%)		Low Elevation (5.52%)	
			ft/day	in./qtr	ft/day	in./qtr
FY 91, QTR 1	2.58	0.002389	0.000198	0.214	0.000132	0.143
FY 91, QTR 2	1.60	0.001481	0.000123	0.133	0.000082	0.089
FY 91, QTR 3	6.55	0.006065	0.000502	0.542	0.000335	0.362
FY 91, QTR 4	8.58	0.007944	0.000658	0.711	0.000439	0.474
FY 92, QTR 1	3.56	0.003296	0.000273	0.295	0.000182	0.197
FY 92, QTR 2	7.73	0.00438	0.000363	0.392	0.000242	0.261

Table 11		
Transient Mass Balance		
Item	Recharge rate (gpm)	Discharge rate (gpm)
Precipitation	160.60	
Denver Sands	61.88	
Boundary Inflow	297.25	385.69
Basin A Neck Containment System	4.28	8.91
North Boundary Containment System		25.75
Northwest Boundary Containment System		336.46
Wells Section 27 (NWBCS)	232.80	
Basin F IRA	2.0	2.0
Total	758.81	758.81

6 Sensitivity Analysis

Data used in any groundwater modeling effort are estimated, interpreted, and inferred from other data. Because of the uncertainties in the values of key parameters such as the hydraulic conductivity and recharge, it was determined that a sensitivity analysis should be performed. The analysis can determine the sensitivity of the flow field to the variation of key parameters. Each parameter was uniformly varied by a multiple of the calibrated value over the model area while all other parameters and variables were held constant. The measured water levels at 74 observation wells were compared to the computed water levels for the same wells for each parameter variation to determine the effect of the parameter change on the average water levels.

The Root Mean Square Error (RMSE) method was applied to the observed and calculated heads to determine the sensitivity of the model to specific parameter adjustments. The RMSE was calculated as,

$$RMSE = \sqrt{\frac{\sum_{i=1}^N (H_i^m - H_i^c)^2}{N}} \quad (3)$$

where

N = number of observations

H_i^m = the measured water level, in ft

H_i^c = the computed water level, in ft

The RMSE indicates the average amount the measured water levels differ from calculated water levels. The RMSE for the transient calibrated model was 1.5 ft, which indicates that on the average the difference between the measured and calculated heads for the 74 observation wells is 1.5 ft. The smaller the RMSE value, the better the calculated head matches the measured head.

The parameter adjustments applied were 0.1, 0.5, 1.5, 2.0, and 3.0 times the calibrated values for the two parameters. The RMSE values for each parameter variation depicting the range of sensitivity are shown in Figure 28; a multiple of one indicates the calibrated RMSE value. The model flow field was defined as sensitive to changes in parameter values when the RMSE was 10 percent greater than the RMSE of the calibrated model. Based on the established criteria, the

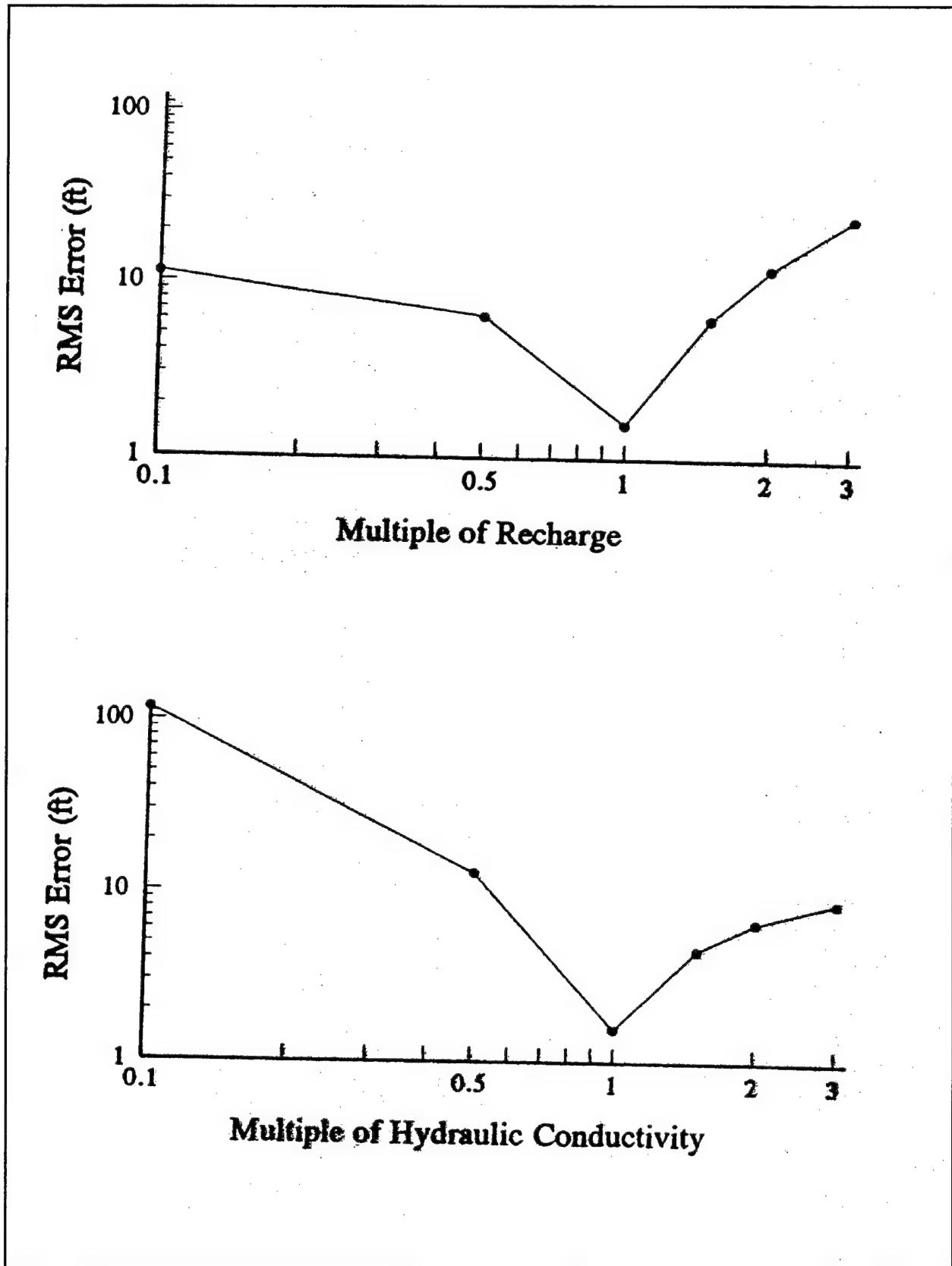


Figure 28. Sensitivity analysis results

flow field is sensitive to all hydraulic conductivity and recharge multiples, as shown in Figure 28. Therefore, the model is sensitive to adjustments in these parameters.

Sensitivity analysis is useful in evaluating the degree that errors in parameters affect the accuracy of the model. If an investigation indicates that a modification of any one of the parameters is required and the parameter's RMSE increased considerably by the change, then a new calibration would be suggested.

7 Simulation of Remedial Alternatives

Contaminant migration at RMA is largely controlled by advective flow. To assist in the evaluation of nine remedial alternatives, the Basin F Subregional Flow Model was used to simulate each alternative under steady-state conditions. The results of each simulation will be used to determine the feasibility, the effectiveness of each remedial alternative and its impact on existing control systems, and the regional groundwater flow. The alternative simulations and their results are discussed in this section.

Description of the Simulated Remedial Alternatives

A list of nine possible groundwater remedial alternatives was identified for the RMA Detailed Analysis. Illustrations of the components to be simulated for each alternative variations are given in Figures 29 through 37. In all figures, pumping wells are represented by solid circles, and recharge wells are represented by open circles. The wells are located at appropriate node locations on the grid. The locations of slurry walls are indicated as solid lines covering nodes which are used to represent the low-permeability slurry wall. The location and extent of low permeability surface cover or clay cap is indicated as a shaded area. The remedial alternative simulation identification codes and a brief description of the alternatives are as follows:

- a. NC-2.* Existing Basin F IRA pumping well only.
- b. NC-3A.* Extraction system of 13 pumping wells.
- c. NC-3B.* Extraction system of 13 pumping wells with 14 recharge wells.
- d. NC-3C.* Extraction and recharge system as simulation NC-3B with one slurry wall.
- e. NC-3D.* Extraction system of 16 pumping wells.

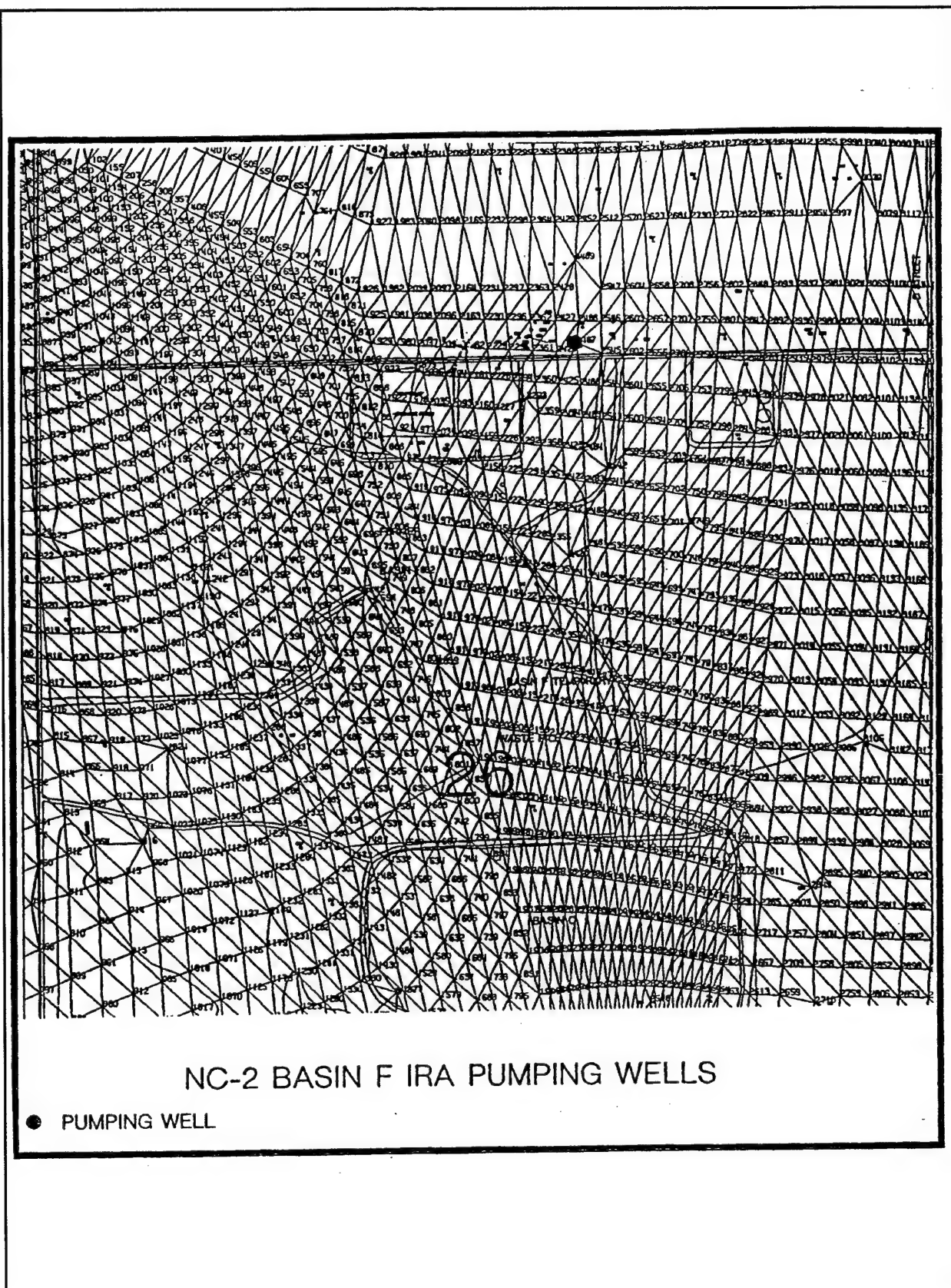


Figure 29. Remedial alternative NC-2

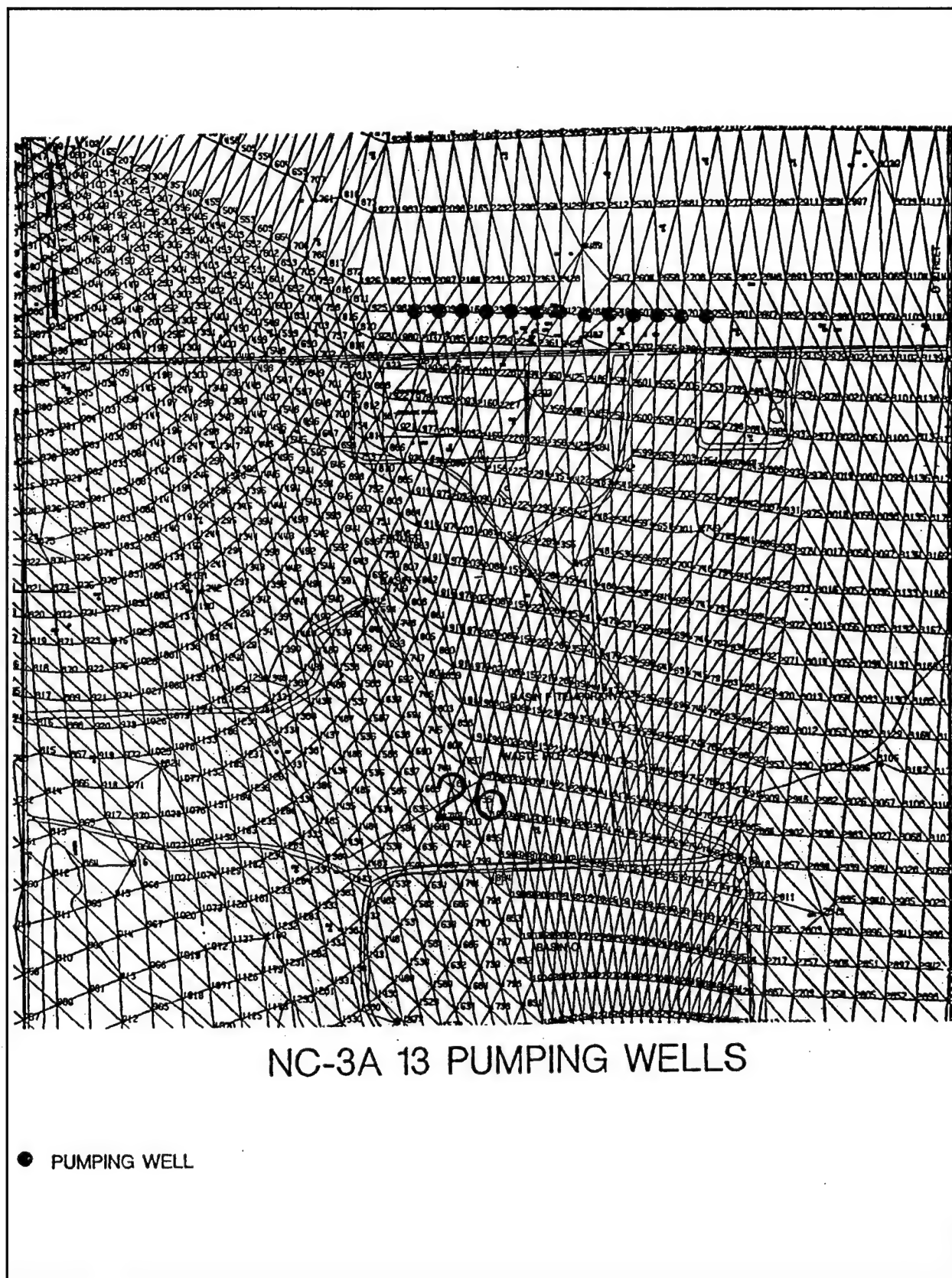
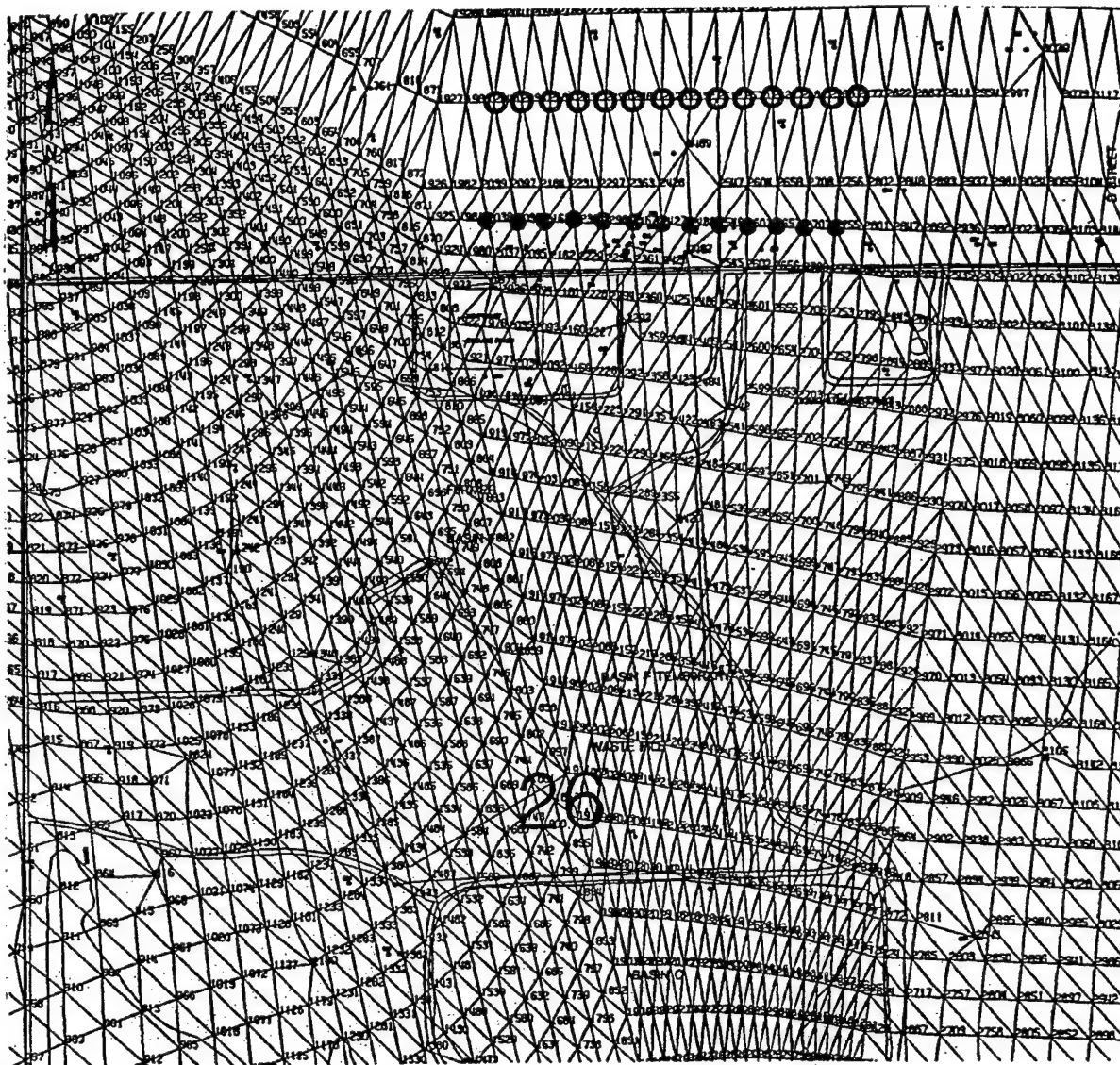


Figure 30. Remedial alternative NC-3A

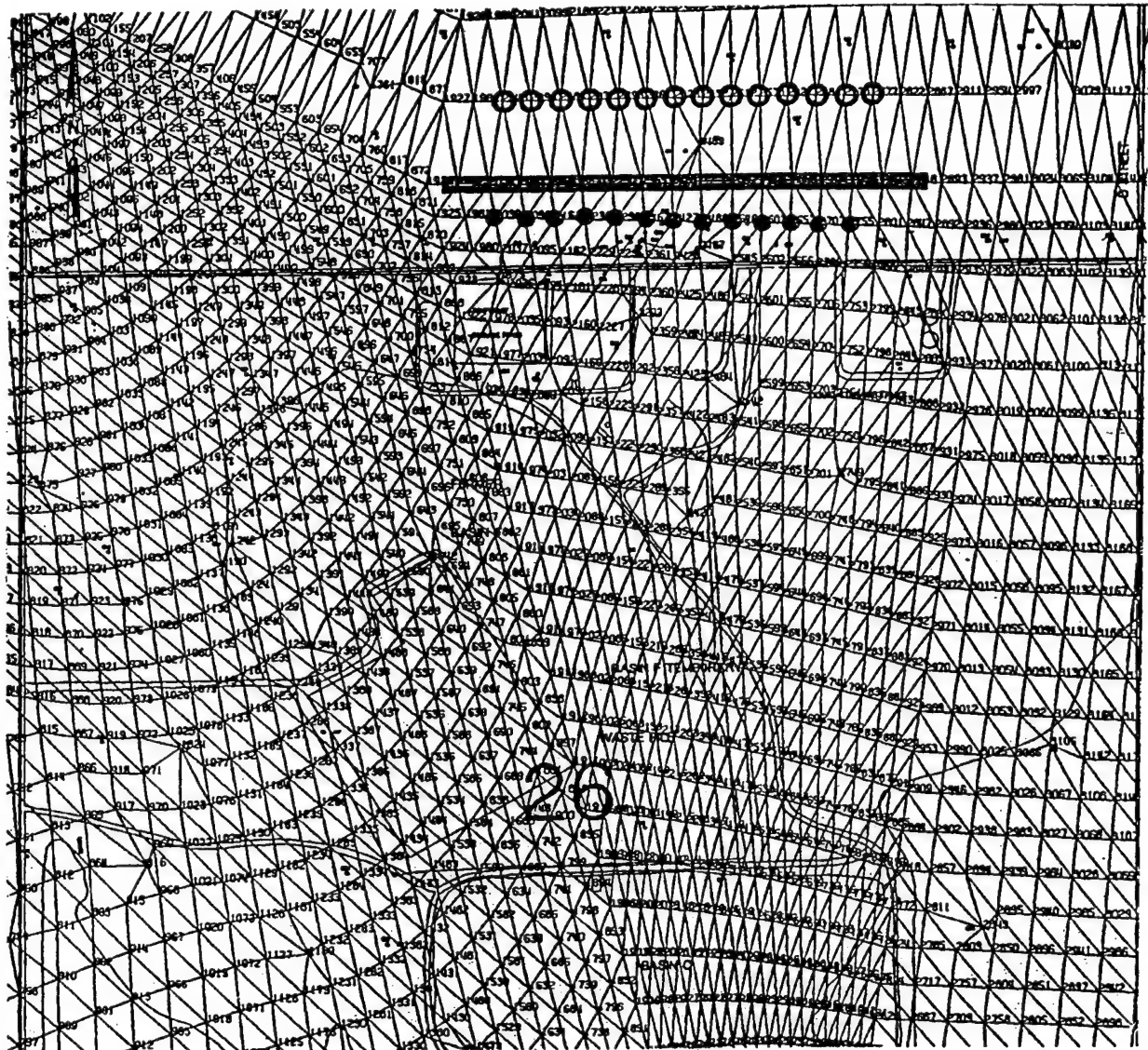


NC-3B 13 PUMPING WELLS AND 14 RECHARGE WELLS

● PUMPING WELL

○ RECHARGE WELL

Figure 31. Remedial alternative NC-3B



NC-3C 13 PUMPING WELLS, 14 RECHARGE WELLS AND 1 SLURRY WALL

● PUMPING WELL

○ RECHARGE WELL



SLURRY WALL

Figure 32. Remedial alternative NC-3C

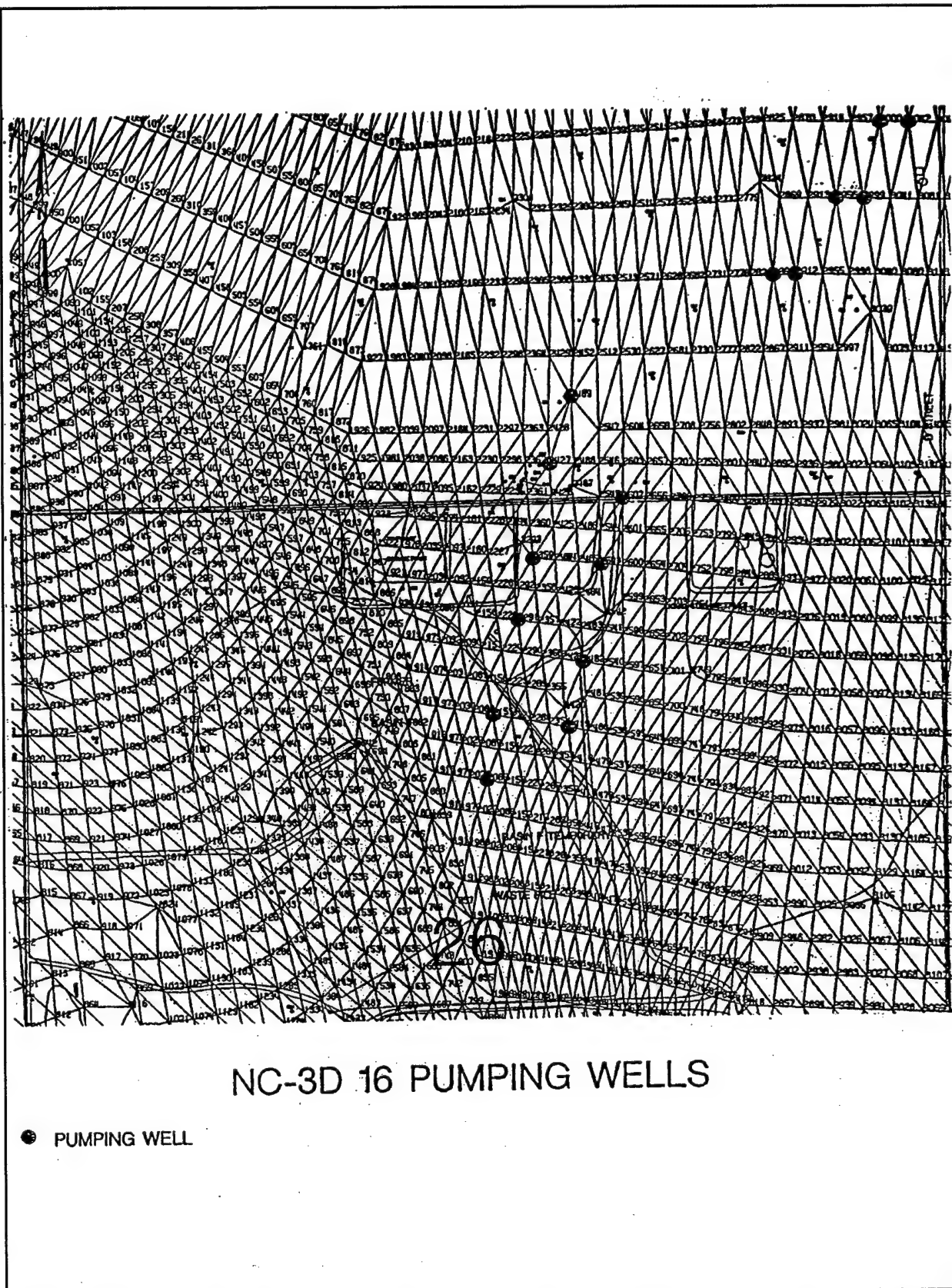


Figure 33. Remedial alternative NC-3D

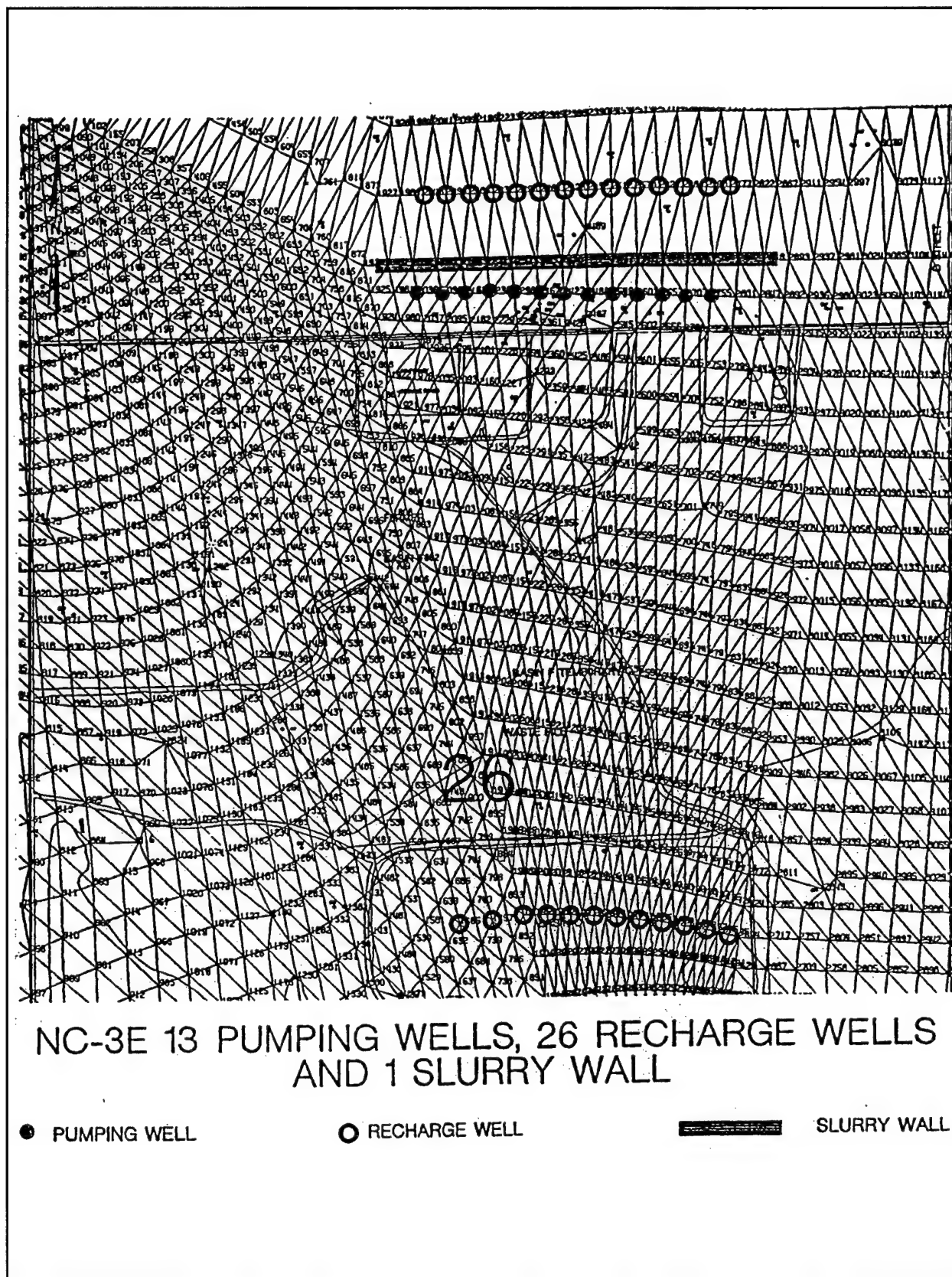
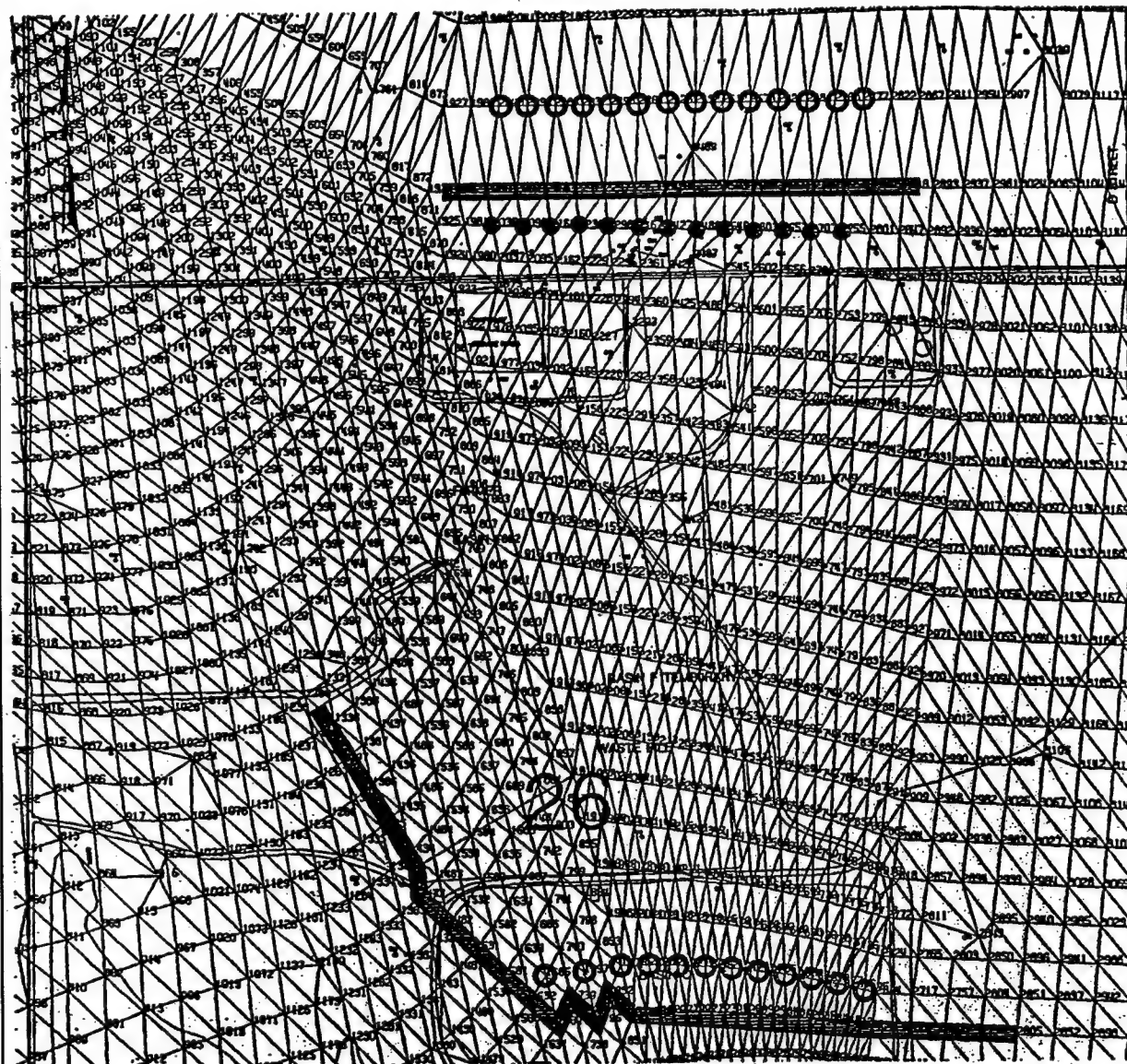


Figure 34. Remedial alternative NC-3E



NC-3F 13 PUMPING WELLS, 26 RECHARGE WELLS AND 2 SLURRY WALLS

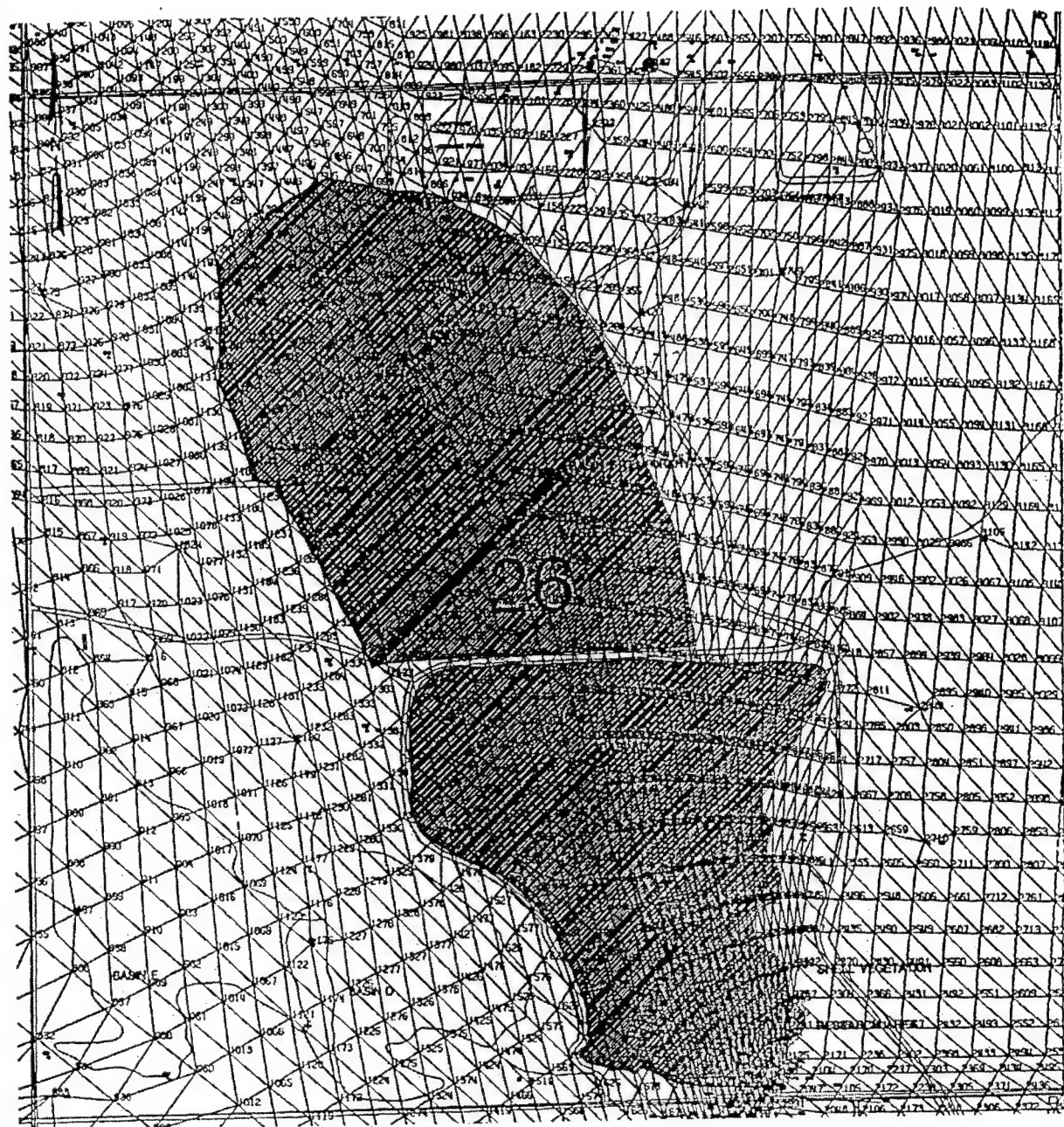
● PUMPING WELL

○ RECHARGE WELL



SLURRY WALL

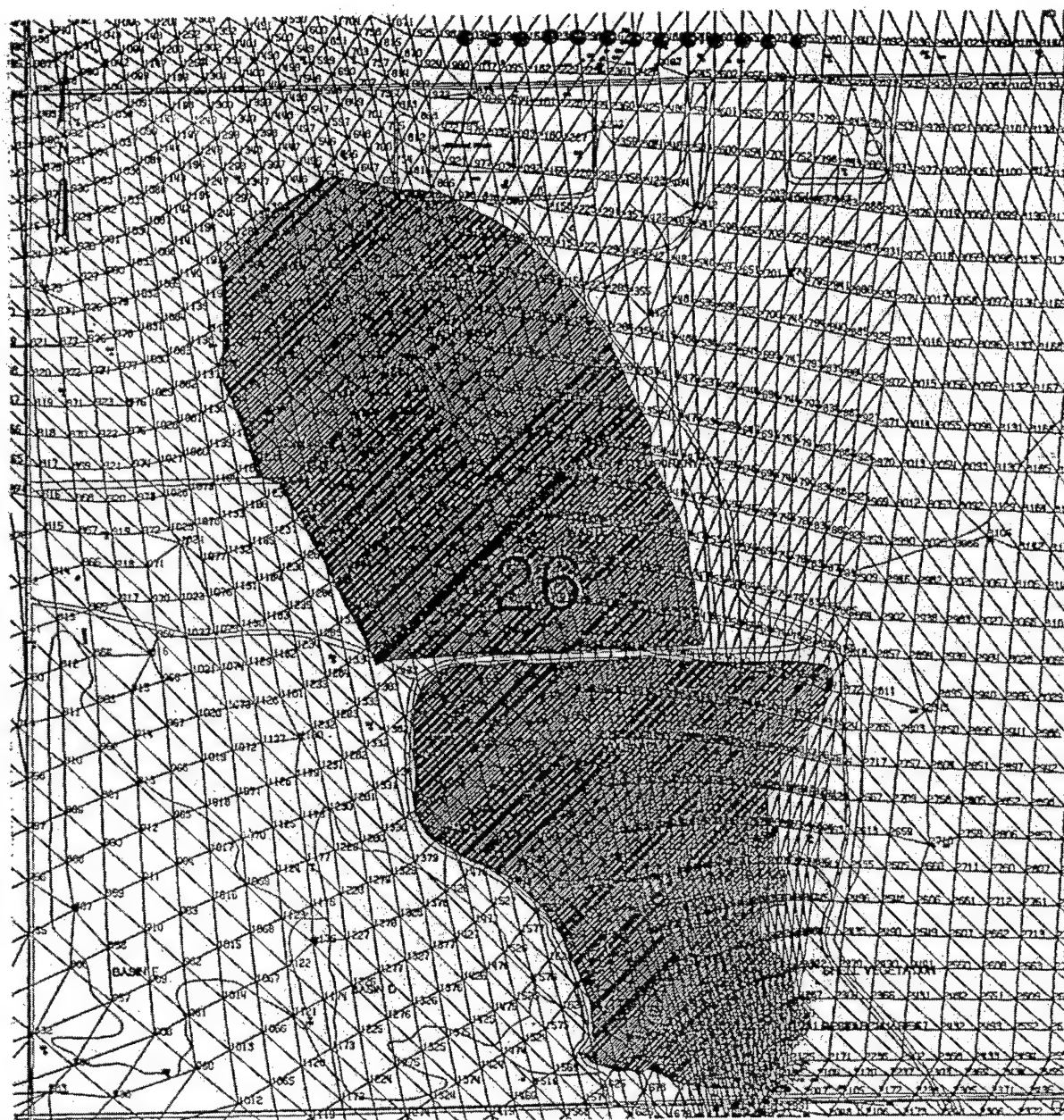
Figure 35. Remedial alternative NC-3F



NC-6A BASIN F IRA PUMPING WELL AND 1 SURFACE CLAY CAP

● PUMPING WELL

Figure 36. Remedial alternative NC-6A



NC-6B 13 PUMPING WELLS AND 1 SURFACE CLAY CAP

● PUMPING WELL

Figure 37. Remedial alternative NC-6B

- f. *NC-3E*. Extraction, recharge, and slurry wall system of simulation NC-3C, with 12 additional recharge wells.
- g. *NC-3F*. Extraction, recharge, and slurry wall system of simulation NC-3E, with an additional slurry wall.
- h. *NC-6A*. Existing Basin F IRA pumping well with a clay cap over Basins F and C.
- i. *NC-6B*. Extraction system of 13 pumping wells, with a clay cap over Basins F and C.

Simulation Approach

The approach taken for each simulation was to fix the water level elevation (constant head) at each extraction well to establish the flux to the well. The resulting flux of the extraction system must be sufficient to provide contaminant (particle) capture at the extraction wells. Contaminant capture is verified with a particle-tracking program. If the extraction rate is not sufficient to provide particle capture, then the ground-water elevations at the pumping wells are lowered and the process is repeated. The extracted water is recharged at specified locations at a rate equivalent to the extraction system rate. For simulations with slurry walls, the walls are simulated as having a thickness of three feet and a conductivity equivalent to 10^{-7} cm/sec. The clay cap covering Basin F and C was simulated by setting the effective recharge from precipitation to zero on the capped areas.

Simulation Results

The resulting pumping and recharge rates from the simulation of each remedial alternative are shown in Tables 12 through 20. The remedial alternatives have no major impact on the overall subregional groundwater flow within the model area or on the present contamination control systems. Because of the minor effect of the alternatives on the overall flow system, they will not be discussed individually or in any detail. The results from simulation of alternative NC-3A and NC-3B indicate that more water is flowing across the 9th Avenue northward from the Basin F area than was previously reported. Because the flow rate is a function of the hydraulic conductivity and the saturated thickness, the model indicates that both these parameters should be verified in the area of these alternatives. The bedrock and USF base elevations drive the saturated thickness, and it is this parameter which is most important to verify.

The quantitative results provided from the simulation of each alternative are within a reasonable margin of error and can be used for the relative comparison of the remedial alternatives to aid in the remedial alternative selection process.

Table 12			
Alternative NC-2 Simulation Results			
Well No.	Location		Pumping rate (gpm)
	X-Coord (ft)	Y-Coord (ft)	
23311	2181488	191226	4.713

Table 13			
Alternative NC-3A Simulation Results			
Well No.	Location		Pumping rate (gpm)
	X-Coord (ft)	Y-Coord (ft)	
P1	2180519	191392	1.25
P2	2180659	191387	0.50
P3	2180800	191383	0.50
P4	2180940	191378	0.50
P5	2181080	191374	0.50
P6	2181221	191369	0.50
P7	2181361	191365	0.50
P8	2181501	191360	0.50
P9	2181642	191356	0.50
P10	2181782	191352	0.75
P11	2181923	191348	1.00
P12	2182063	191344	1.00
P13	2182203	191339	1.75
Total			9.75

Table 14							
Alternative NC-3B Simulation Results							
Pumping				Recharge			
Well No.	Location		Rate (gpm)	Well No.	Location		Rate (gpm)
	X-Coord (ft)	Y-Coord (ft)			X-Coord (ft)	Y-Coord (ft)	
P1	2180519	191392	1.25	RW1	2180546	191984	0.696
P2	2180659	191387	0.50	RW2	2180682	191984	0.696
P3	2180800	191383	0.50	RW3	2180817	191984	0.696
P4	2180940	191378	0.50	RW4	2180953	191985	0.696
P5	2181080	191374	0.50	RW5	2181089	191985	0.696
P6	2181221	191369	0.50	RW6	2181224	191986	0.696
P7	2181361	191365	0.50	RW7	2181360	191986	0.696
P8	2181501	191360	0.50	RW8	2181495	191987	0.696
P9	2181642	191356	0.50	RW9	2181631	191988	0.696
P10	2181782	191352	0.75	RW10	2181766	191989	0.696
P11	2181923	191348	1.00	RW11	2181902	191990	0.696
P12	2182063	191344	1.00	RW12	2182037	191990	0.696
P13	2182203	191339	1.75	RW13	2182173	191992	0.696
				RW14	2182309	191992	0.696
Total			9.75	Total			9.75

Table 15							
Alternative NC-3C Simulation Results							
Pumping				Recharge			
Well No.	Location		Rate (gpm)	Well No.	Location		Rate (gpm)
	X-Coord (ft)	Y-Coord (ft)			X-Coord (ft)	Y-Coord (ft)	
P1	2180519	191392	1.084	RW1	2180546	191984	0.798
P2	2180659	191387	0.423	RW2	2180682	191984	0.798
P3	2180800	191383	0.421	RW3	2180817	191984	0.798
P4	2180940	191378	0.521	RW4	2180953	191985	0.798
P5	2181080	191374	0.578	RW5	2181089	191985	0.798
P6	2181221	191369	0.378	RW6	2181224	191986	0.798
P7	2181361	191365	0.673	RW7	2181360	191986	0.798
P8	2181501	191360	0.106	RW8	2181495	191987	0.798
P9	2181642	191356	0.203	RW9	2181631	191988	0.798
P10	2181782	191352	0.877	RW10	2181766	191989	0.798
P11	2181923	191348	0.877	RW11	2181902	191990	0.798
P12	2182063	191344	1.061	RW12	2182037	191990	0.798
P13	2182203	191339	3.967	RW13	2182173	191992	0.798
				RW14	2182309	191992	0.798
Total			11.17	Total			11.17

Table 16
Alternative NC-3D Simulation Results

Well No.	Location		Pumping rate (gpm)
	X-Coord (ft)	Y-Coord (ft)	
P1	2183220	193365	22.479
P2	2183377	193362	23.590
P3	2182977	192904	7.343
P4	2183130	192902	4.740
P5	2182633	192448	4.189
P6	2182759	192450	3.652
P7	2181480	191746	2.192
P8	2181361	191365	0.003
P9	2181780	191152	0.371
P10	2181264	190806	0.786
P11	2181651	190765	1.287
P12	2181177	190438	0.263
P13	2181550	190187	1.800
P14	2181029	189888	0.011
P15	2181465	189808	0.413
P16	2181197	189464	0.084
Total			73.20

Table 17 Simulation NC-3E Simulation Results							
Pumping				Recharge			
Well No.	Location		Rate (gpm)	Well No.	Location		Rate (gpm)
	X-Coord (ft)	Y-Coord (ft)			X-Coord (ft)	Y-Coord (ft)	
P1	2180519	191392	1.322	RW1	2180546	191984	0.484
P2	2180659	191387	0.424	RW2	2180682	191984	0.484
P3	2180800	191383	0.407	RW3	2180817	191984	0.484
P4	2180940	191378	0.516	RW4	2180953	191985	0.484
P5	2181080	191374	0.579	RW5	2181089	191985	0.484
P6	2181221	191369	0.567	RW6	2181224	191986	0.484
P7	2181361	191365	0.368	RW7	2181360	191986	0.484
P8	2181501	191360	0.043	RW8	2181495	191987	0.484
P9	2181642	191356	0.391	RW9	2181631	191988	0.484
P10	2181782	191352	0.911	RW10	2181766	191989	0.484
P11	2181923	191348	0.908	RW11	2181902	191990	0.484
P12	2182063	191344	1.101	RW12	2182037	191990	0.484
P13	2182203	191339	4.570	RW13	2182173	191992	0.484
				RW14	2182309	191992	0.484
				RW15	2180767	187702	0.484
				RW16	2180957	187715	0.484
				RW17	2181136	187747	0.484
				RW18	2181272	187748	0.484
				RW19	2181407	187744	0.484
				RW20	2181541	187737	0.484
				RW21	2181673	187726	0.484
				RW22	2181804	187710	0.484
				RW23	2181934	187692	0.484
				RW24	2183662	187669	0.484
				RW25	2182188	187642	0.484
Total			12.11	Total			12.11

Table 18
Alternative NC-3F Simulation Results

Pumping				Recharge			
Well No.	Location		Rate (gpm)	Well No.	Location		Rate (gpm)
	X-Coord (ft)	Y-Coord (ft)			X-Coord (ft)	Y-Coord (ft)	
P1	2180519	191392	0.981	RW1	2180546	191984	0.415
P2	2180659	191387	0.340	RW2	2180682	191984	0.415
P3	2180800	191383	0.167	RW3	2180817	191984	0.415
P4	2180940	191378	0.134	RW4	2180953	191985	0.415
P5	2181080	191374	0.371	RW5	2181089	191985	0.415
P6	2181221	191369	0.396	RW6	2181224	191986	0.415
P7	2181361	191365	0.031	RW7	2181360	191986	0.415
P8	2181501	191360	0.504	RW8	2181495	191987	0.415
P9	2181642	191356	0.275	RW9	2181631	191988	0.415
P10	2181782	191352	0.860	RW10	2181766	191989	0.415
P11	2181923	191348	0.006	RW11	2181902	191990	0.415
P12	2182063	191344	1.947	RW12	2182037	191990	0.415
P13	2182203	191339	4.763	RW13	2182173	191992	0.415
				RW14	2182309	191992	0.415
				RW15	2180766	187701	0.415
				RW16	2180957	187715	0.415
				RW17	2181135	187747	0.415
				RW18	2181272	187747	0.415
				RW19	2181407	187744	0.415
				RW20	2181540	187736	0.415
				RW21	2181673	187725	0.415
				RW22	2181804	187710	0.415
				RW23	2181933	187691	0.415
				RW24	2182061	187668	0.415
				RW25	2182188	187642	0.415
				RW26	2182314	187612	0.415
Total			10.78	Total			10.78

Table 19			
Alternative NC-6A Simulation Results			
Well No.	Location		Pumping rate (gpm)
	X-Coord (ft)	Y-Coord (ft)	
23311	2181488	191226	4.367

Table 20			
Alternative NC-6B Simulation Results			
Well No.	Location		Pumping rate (gpm)
	X-Coord (ft)	Y-Coord (ft)	
P1	2180519	191392	0.948
P2	2180659	191387	0.157
P3	2180800	191383	0.155
P4	2180940	191378	0.195
P5	2181080	191374	0.125
P6	2181221	191369	0.013
P7	2181361	191365	0.011
P8	2181501	191360	0.019
P9	2181642	191356	0.015
P10	2181782	191352	0.020
P11	2181923	191348	0.029
P12	2182063	191344	0.038
P13	2182203	191339	0.483
Total			2.21

8 Summary and Conclusions

A numerical model of the Basin F subregional groundwater flow at RMA has been constructed as an evaluation tool for comparison of the preliminary design of proposed remedial alternatives and the affect of remedial alternatives on future subregional groundwater flow conditions. The groundwater model simulates steady-state and transient, two-dimensional areal flow in the UFS that is comprised of shallow alluvium and upper weathered Denver Fm materials. The hydraulic conductivity of the alluvium ranged from 2 to 1,500 ft/day. The weathered upper Denver Fm hydraulic conductivity ranged from 0.1 to 14 ft/day. The storage coefficients used for saturated and unsaturated alluvium are 0.25 and 0.05, respectively. All parameter values were within the range of observed or published data.

Sources of water to the UFS include precipitation infiltration and recharge from Denver Fm subcropping sands. The boundary conditions of the study area were modeled as constant-head boundaries and prescribed fluxes. The model domain encompasses approximately 3.6 square miles. The study area's northern and western boundaries are aligned with the NBCTS and the NWBCS. Model calibration and simulation runs are made with CSU finite element code (GW Flow). Steady-state model calibration was based on summer 1990 water-table elevations of 74 observation wells. Transient model verification was based on six quarters of water-level elevations at 74 observation wells ending with the 2nd Quarter fiscal year 1992. There was a good comparison between model calculated and observed water levels over most of the modeled area. Model water budget (mass balance) components, however, were not directly comparable over the entire study area because of limited data, but there was good comparison at the NBCTS, NWBCS, and Basin A Neck System.

The response of the model to adjustments of input parameters was evaluated by sensitivity analysis. The model calibration results degenerate with moderate changes in hydraulic conductivity and recharge rates. Therefore, the model is sensitive to adjustments in these parameters. Significant modifications to these sensitive parameters would probably require a new calibration of the model.

After steady-state calibration and transient verification, the groundwater model was used to evaluate proposed remedial alternatives. Nine remedial alternatives were simulated in an effort to evaluate the ability of each alternative to control contaminated groundwater flow, and impact on future groundwater flow conditions. It should be emphasized that the ability of the calibrated model to replicate past ground water conditions does not necessarily verify its ability to predict future conditions. The simulation is subject to various uncertainties and

assumptions inherent in groundwater modeling process. The simulation results should be regarded as estimates based on currently available data. As new information and data are acquired or revisions in the assumed conceptual model are made, the model should be updated and, if necessary, recalibrated.

The following conclusions are made from the Basin F subregional groundwater flow modeling study.

- a. The upper Denver Fm is an important part of the UFS. In areas of totally unsaturated alluvium the upper weathered Denver Fm provides a mechanism for groundwater flow and contaminant transport through the UFS.
- b. The general direction of groundwater movement within the study area is southeast to northwest. The southeast to northwest flow direction has local variability and is affected by the operation of current containment systems.
- c. The overall effect and influence of recharge from Denver Fm subcropping sands to the UFS is small, but in some local areas the recharge from these sands can be critical to groundwater flow within the UFS.
- d. Steady-state calibration results indicate that the largest source of recharge and discharge to the UFS within the study area is boundary underflow which is the result of established regional groundwater movement through the study area. The North Boundary and Northwest Boundary containment systems combined represent the second largest discharge from the UFS from the study area.
- e. The uncertainty of input parameters (e.g, water-table elevation, bedrock surface elevation, UFS base elevation, hydraulic conductivity, boundary inflows, areal recharge, pumping rates) used for this modeling effort is typical of most modeling efforts. This modeling effort indicates the need for setting quality-control standards for all data. Uniform data standards will decrease the amount of data uncertainty.
- f. Simulations with the calibrated model produced approximate flows in the Basin F area that were different from values reported in previous studies. The difference in flow is primarily because previous studies did not model flow in the weathered Denver Fm in this area.
- g. The quantitative results provided are within a reasonable margin of error and can be used as part of the remedial alternative selection process. They should not be the sole basis for the design of any remedial systems.

9 Recommendations

Based on a review of the results of this modeling effort, the following recommendations are made.

- a.* The RMA program manager should institute a system that standardizes and establishes quality controls for all data collected as part of the RMA contamination remediation effort, before it becomes part of the RMA official data base.
- b.* A study should be undertaken to close all data gaps within the RMA boundary, specifically along major contamination pathways. All data parameters associated with groundwater flow along major pathways must be defined within a range of accuracy, if accurate groundwater flow and contaminant transport analyses are expected.
- c.* The base of the UFS must be accurately defined in areas where new control systems are planned. The amount of weathering or fracturing to the Denver Fm is proportional to the quantities of groundwater flow through the UFS. The saturated thickness of the upper Denver Fm can differ by as much as 30 ft depending on how the base of the UFS is defined.
- d.* The flow parameters of the weathered upper Denver Fm should be better defined, especially along major contamination transport pathways.
- e.* The bedrock and base elevation of the UFS in the area of Basin F northward across 9th Avenue need to be accurately defined. The quantity of flow crossing 9th Avenue from the Basin F area is dependent on the bedrock and base elevations which define the saturated thickness of the UFS. Three different data sources give three different elevations for the same area which is a reflection of the data uncertainty.
- f.* The conceptual model of the groundwater flow system at RMA must be accurately defined. The revised regional model does not simulate flow through the weathered Denver Fm except in areas where the alluvium is unsaturated. The Basin F Subregional Model simulates flow through the weathered Denver Fm in all the modeled area.
- g.* The design of remedial alternatives should be based on the analysis of additional data collected at proposed remedial sites along with the results of this modeling effort. Additional data would close some data gaps, reduce data uncertainty, and possibly increase design accuracy.

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Appendix A

GWFLOW Computer Code

```

PROGRAM GWFLOW
C**** UPDATE MAY,6 92 CHANGE OUTPUT TO GALLONS & June,4 to Double
Precision****
C**** UPDATE June,5 for updating constant head 2&3 at the 4th quarter*****
C*****GWFCNG
C *****
C *
C * THIS MODEL SIMULATES 2-DIMENSIONAL GROUNDWATER FLOW. *
C * NUMERICAL SOLUTION BY THE GALERKIN FINITE ELEMENT METHOD *
C * USING TRIANGULAR ELEMENTS AND LINEAR SHAPE FUNCTIONS. *
C * WRITTEN AND PROGRAMMED BY JAMES WARNER, DEPARTMENT OF CIVIL *
C * ENGINEERING, COLORADO STATE UNIVERSITY, FORT COLLINS, COLO. *
C * UNIT 11 = INPUT DATA FILE (*.INP) *
C * UNIT 12 = OUTPUT ECHO OF INPUT DATA (*.ECH) *
C * UNIT 13 = OUTPUT FOR RESIDUAL HEADS (*.DAT) *
C * UNIT 7 = OUTPUT RESULTS FILE (*.RES) *
C * UNIT 8 = OUTPUT HEAD/DRAWDOWN SURFACE FILE (*.SRF) *
C * UNIT 9 = OUTPUT HEAD FILE FOR SURFER (*.DAT) *
C * VERSION 1.0 *
C MODIFIED BY ABDEL-RAHMAN A. A. FOR THE CRAY Y-MP SUPER-COMPUTER
C *****
PARAMETER (NNP = 3500,NEL = 7000,IB = 75,NBS = 200)
IMPLICIT REAL*8(A-H,O-Z)

C
COMMON /BLOCKA/ NUMNP,X(NNP),Y(NNP),NUMEL,NI(NEL),NJ(NEL),
1NK(NEL),TITLE(20),IBAND,IFLAG(5),TOL,RELAX
COMMON /BLOCKB/ NTIM,NPMP,PINT,TIMX,TINIT,TPDAY,SUMT,
1TDEL,TIMY
COMMON /BLOCKC/ NCODNP,NODEID(NNP),TRANS(NNP),HYDK1(NNP),THCK(NNP),
1REC(NNP),SC(NNP),S,HEAD(NNP),HDI(NNP)
COMMON /BLOCKD/ NCODEL,IDELEM(NEL),RECH(NEL),VPRM(NEL),AREA(NEL),
+ HDLEAK(NEL)
COMMON /BLOCKE/ AF(NNP,IB),BF(NNP,IB),DF(NNP),CM(NNP,IB),RHS(NNP)
COMMON /BLOCKF/ QINRCH,QOUTRCH,QINREC,QOUTREC,QINCHN,QOUTCHN,
1QINLEK,QOUTLEK,QSTOR,QINGHB,QOUTGHB,QINDR,QOUTDR
COMMON /BLOCKG/ NUMBS,NGHB(NBS,2),GHBCOND(NBS),GHBHEAD(NBS),
1SLENGTH(NBS),QGHB(NBS),QBSNODE(NNP),QDR(NNP),DRCOND(NNP),
2DRELEV(NNP)
COMMON /BLOCKH/ PRINTIT
COMMON /BLOCKO/ NOBSW(300),OBSh(300),NUMOB
CHARACTER*1 PRINTIT
COMMON /BLOCKT/ GS(NNP),ZBED(NNP),ZBASE(NNP),HYDK2(NNP)
INTEGER NOBSW,NUMOB
C REAL TARRAY(2)
C
C INCLUDE 'MSFGRPH'

```

Appendix A GWFLOW Computer Code


```

C
  WRITE (*,60)
60 FORMAT (//,
+ 12X'--- Name the output Echo filename(.ECH) (echo of input) ---')
  EXTEN = '.ECH'
  STATE = 'NEW'
  CALL FILWRK(STATE,EXTEN,FNAMEX)
  OPEN (12,FILE=FNAMEX)

C
  WRITE (*,70)
70 FORMAT (//,
+ 12X' --- Name the output Results filename(.RES) ---')
  EXTEN = '.RES'
  STATE = 'NEW'
  CALL FILWRK(STATE,EXTEN,FNAMEX)
  OPEN (7,FILE=FNAMEX)

C
  WRITE (*,80)
80 FORMAT(//
+ 12X' --- Name the output Surface filename(.SRF) (head,etc.) ---')
  EXTEN = '.SRF'
  STATE = 'NEW'
  CALL FILWRK(STATE,EXTEN,FNAMEX)
  OPEN (8,FILE=FNAMEX)

C
  WRITE (*,90)NNP,NEL,IB,NBS
90 FORMAT(///' PROGRAM GWFLOW HAS THE FOLLOWING MAXIMUM DIMENSIONS: '//
1'   NUMBER OF NODAL POINTS   = ',I5,/
2'   NUMBER OF ELEMENTS      = ',I5,/
3'   BANDWIDTH                = ',I5,/
4'   NUMBER OF BOUNDARY SEGMENTS = ',I5,/

C
C *****
AREATOT = 0.
IBAND = 0
QINRCH = 0.
QOUTRCH = 0.
QINREC = 0.
QOUTREC = 0.
QINCHN = 0.
QOUTCHN = 0.
QINLEK = 0.
QOUTLEK = 0.
QINGHB = 0.
QOUTGHB = 0.
QINDR = 0.
QOUTDR = 0.

C
C .....PRINT HEADING
  WRITE (12,100)
100 FORMAT (///' *****
1' *****',/,
2' *
3'   *,/,
4' * THIS MODEL SIMULATES 2-DIMENSIONAL GROUNDWATER FLOW.  NUMERIC
5AL SOLUTION  *,/,
6' * BY THE GALERKIN FINITE ELEMENT METHOD USING TRIANGULAR ELEMEN
7TS AND  *,/,
8' * LINEAR SHAPE FUNCTIONS.  WRITTEN AND PROGRAMMED BY JAMES WARN
9ER, DEPT OF  *,/,
1' * CIVIL ENGINEERING, COLORADO STATE UNIVERSITY, FORT COLLINS, C
2OLORADO.  *,/,
3' *
4'   *,/,
5' *****

```

```

6*****')
C
C .....READ TITLE CARD
  READ (11,110) TITLE
110 FORMAT (20A4)
  WRITE (12,120) TITLE
120 FORMAT (//1H ,20A4//)
  WRITE (8,110) TITLE
  WRITE (12,130)
130 FORMAT (1H0,45X,21HI N P U T   D A T A/1H ,44X,23H-----
1-----//)
C
C .....READ TIME TIME PARAMETERS
C   NTIM = MAXIMUM NUMBER OF TIME STEPS
C   NPMP = NUMBER OF PUMPING PERIODS
C   PINT = FIRST PUMPING PERIOD IN DAYS
C   PRINTIT = PRINT OPTION FOR THE CURRENT PUMPING PERIOD
C   TIMX = TIME INCREMENT MULTIPLIER
C   TINIT = INITIAL TIME STEP IN SECONDS
C
  READ (11,110) TITLE
  READ (11,160) NTIM,NPMP,PINT,PRINTIT,TIMX,TINIT
160 FORMAT (2I5,F10.0,4X,A1,2F10.0)
  WRITE (12,170) NTIM,NPMP,PINT,PRINTIT,TIMX,TINIT
170 FORMAT (///,23X,16HTIME PARAMETERS//
113X,48HNTIM   (MAXIMUM NUMBER OF TIME STEPS)      =,2X,I4/
213X,48HNPMP   (NUMBER OF PUMPING PERIODS)          =,2X,I4/
313X,48HPINT   (FIRST PUMPING PERIOD IN DAYS)        =,2X,F7.2/
313X,48HPRINTIT (PRINT OPTION FOR FIRST PERIOD)      =,5X,A1 /
413X,48HTIMX   (TIME INCREMENT MULTIPLIER)          =,2X,F7.2/
513X,48HTINIT  (INITIAL TIME STEP IN SECONDS)        =,2X,F5.0)
C
C .....READ SIMULATION OPTIONS
C   IFLAG1 = 0 (CONFINED AQUIFER)
C   IFLAG1 = 1 (UNCONFINED AQUIFER)
C*  IFLAG1 = 2 (LEAKY AQUIFER)
C*  IFLAG1 = 3 (MODIFIED ONE LAYER MODEL)
C   IFLAG2 = 0 (SOLUTION BY GAUSS ELIMINATION)
C   IFLAG2 = 1 (SOLUTION BY POINT ITER. SUCCESSIVE OVER RELAXATIO
C   IFLAG3 = 0 (GWFLOW DATA SET -- MUST BE 0 FOR THIS PROGRAM)
C   TOL = ERROR TOLERANCE IN PISOR
C   RELAX = RELAXATION FACTOR IN PISOR
C
  READ (11,110) TITLE
  READ (11,180) IFLAG(1)
  READ (11,110) TITLE
  READ (11,180) IFLAG(2),TOL,RELAX
  READ (11,110) TITLE
  READ (11,180) IFLAG(3)
180 FORMAT (I1,2F10.0)
  WRITE (12,190)
190 FORMAT (///,23X,19HSIMULATION OPTIONS/)
  IF (IFLAG(1).EQ.0) WRITE (12,200)
200 FORMAT (18X,16HCONFINED AQUIFER)
  IF (IFLAG(1).EQ.1) WRITE (12,210)
210 FORMAT (18X,16HUNCONFINED AQUIFER)
  IF (IFLAG(2).EQ.0) WRITE (12,220)
220 FORMAT (18X,29HSOLUTION BY GAUSS ELIMINATION)
  IF (IFLAG(2).EQ.1) WRITE (12,230) TOL,RELAX
230 FORMAT (18X,38HSOLUTION BY POINT ITERATIVE SUCCESSIVE/
123X,25HOVER RELAXATION - (PISOR)/
223X,38HTOL   (ERROR TOLERANCE)      =,2X,F11.6/
323X,38HRELAX (RELAXATION FACTOR)    =,2X,F7.2)
C
C .....READ ELEMENT DESCRIPTORS
C   NUMNP = NUMBER OF NODAL POINTS

```

```

C      NUMEL = NUMBER OF ELEMENTS
C
      READ (11,110) TITLE
      READ (11,140) NUMNP,NUMEL
140 FORMAT (2I5)
      IF (NUMNP .GT. NNP .OR. NUMEL .GT. NEL) THEN
        WRITE (*,145)
145  FORMAT(///,20X,'***** E R R O R -- # INP1 *****')
        STOP
        RETURN
      END IF
      WRITE (12,150) NUMNP,NUMEL
150 FORMAT (///1H ,22X,'ELEMENT DISCRIPTORS'//
113X,48HNUMNP (NUMBER OF NODAL POINTS)      =,2X,I4/
213X,48HNUMEL (NUMBER OF ELEMENTS)          =,2X,I4)
C
C      .....READ NODAL COORDINATES
      READ (11,110) TITLE
      READ (11,260) FCTR
260 FORMAT (F10.0)
      READ (11,270) (NP,X(NP),Y(NP),I = 1,NUMNP)
270 FORMAT (3(I5,2F10.0))
C
      DO 280 NP = 1,NUMNP
        X(NP) = X(NP) * FCTR
        Y(NP) = Y(NP) * FCTR
280 CONTINUE
C
      WRITE (12,290)
290 FORMAT (1H1,45X,21H I N P U T   D A T A/1H ,44X,23H-----
1-----//1H0,5X,16HNODE COORDINATES/1H ,4X,18H-----
2--/1H0,7X,2(4HNODE,5X,5HX LOC,7X,5HY LOC,13X)/)
      WRITE (12,300) (NP,X(NP),Y(NP),NP = 1,NUMNP)
300 FORMAT (/( 8X,2(I5,F12.2,F12.2,12X)))
C
C      .....READ ELEMENT VERTICES
      READ (11,110) TITLE
      READ (11,310) (NE,NI(NE),NJ(NE),NK(NE),I = 1,NUMEL)
310 FORMAT (4(4I5))
C
C      .....CALCULATE BANDWIDTH
      DO 320 I = 1,NUMEL
        IJ = IABS(NI(I) - NJ(I)) + 1
        IK = IABS(NI(I) - NK(I)) + 1
        JK = IABS(NJ(I) - NK(I)) + 1
320 IBAND = MAX0(IBAND,IJ,IK,JK)
C
      WRITE (12,330)
330 FORMAT (1H1,45X,21H I N P U T   D A T A/1H ,44X,23H-----
1-----//1H0,5X,16HELEMENT VERTICES/1H ,4X,18H-----
2--/1H0, 7X,2(7HELEMENT,3X,6HNODE I,2X,6HNODE J,2X,6HNODE K,7X)/)
      WRITE (12,340) (NE,NI(NE),NJ(NE),NK(NE),NE = 1,NUMEL)
340 FORMAT (/( 7X,2(I5,5X,I5,3X,I5,3X,I5,8X)))
      WRITE (12,350) IBAND
350 FORMAT (///,1H ,10X,11HBANDWIDTH =,I5)
C
      IF (IBAND .GT. IB) THEN
        WRITE (*,352)
352  FORMAT(///,20X,'***** E R R O R -- # INP2 *****')
        STOP
        RETURN
      END IF
C
C      .....CALCULATE ELEMENT AREAS
      DO 390 I = 1,NUMEL
        AREA(I) = ABS((X(NJ(I)) * Y(NK(I)) - X(NK(I)) * Y(NJ(I))

```

```

1      + X(NK(I)) * Y(NI(I)) - X(NI(I)) * Y(NK(I))
2      + X(NI(I)) * Y(NJ(I)) - X(NJ(I)) * Y(NI(I)))*.5
390 AREATOT = AREATOT + AREA(I)
C
C      ....READ IDELEM ARRAY
C      RECH =DISTRIBUTED RECHARGE OR DISCHARGE IN FT**3/DAY/FT**2
C      "+" IS DISCHARGE(PUMPAGE), "-" IS RECHARGE(INJECTION)
C      RECH=FCTR1
C      VPRM =VERT.HYDRAULIC CONDUCTIVITY/THICKNESS OF CONFINING LAYE
C      VPRM=FCTR2
C      HDLEAK= CONSTANT HEAD LEVEL OVERLYING THE CONFINING LAYER
C      HDLEAK=FCTR3
C      NCODEL = NUMBER OF ELEMENT ID CODES TO BE DEFINED
C      SPECIFY OTHER CODES TO FIT YOUR NEEDS
C      *****NOTE: IF NCODEL < 0, THE FILE IS INCOMPLETE
      READ (11,110) TITLE
      READ (11,400) NCODEL
400 FORMAT (I2)
      IF (NCODEL .LT. 0) THEN
        WRITE (*,405)
        WRITE (12,405)
        WRITE (7,405)
405  FORMAT(///,20X,'***** E R R O R -- # INP3 *****'//)
        STOP
        RETURN
      END IF
      DO 410 NE = 1,NUMEL
        RECH(NE) = 0.
        VPRM(NE) = 0.
        IDELEM(NE) = 0
        HDLEAK(NE) = 0.
410 CONTINUE
      IF (NCODEL.EQ.0) GO TO 510
      READ (11,420) (NE,IDELEM(NE),I = 1,NUMEL)
420 FORMAT (8(2I5))
      WRITE (12,430)
430 FORMAT (1H1,45X,21H I N P U T   D A T A/1H ,44X,23H-----
1-----//1H0,5X,22HELEMENT IDENTIFICATION/1H ,4X,23H-----
2-----/1H0,21X,9HNUMBER OF,/1H ,9X,7HELEM ID,5X,10HOCCURENC
3ES,10X,5HRECH ,10X,4HVPRM,10X,'HDLEAK')
      READ (11,110) TITLE
      DO 470 NID = 1,NCODEL
        KOUNT = 0
        READ (11,440) ICODE,FCTR1,FCTR2,FCTR3,FCTR4,FCTR5
440 FORMAT (I5,5F10.0)
        DO 450 I = 1,NUMEL
          IF (IDELEM(I).NE.ICODE) GO TO 450
          KOUNT = KOUNT + 1
          RECH(I) = FCTR1
          VPRM(I) = FCTR2
          HDLEAK(I) = FCTR3
450  CONTINUE
          WRITE (12,460) ICODE,KOUNT,FCTR1,FCTR2,FCTR3
460 FORMAT ((10X,I5,8X,I5,8X,3(F10.7,5X)))
470 CONTINUE
C
C      ....PRINT ELEMENT DATA FOR AREA AND ELEMENT ID
      WRITE (12,480)
480 FORMAT (1H1,45X,21H I N P U T   D A T A/1H ,44X,23H-----
1-----//1H0,5X,12HELEMENT DATA/1H ,4X,14H-----/1H0,2
2(7X,7HELEMENT,7X,4HAREA,5X,7HELEM ID,4X))
      WRITE (12,490) (NE,AREA(NE),IDELEM(NE),NE = 1,NUMEL)
490 FORMAT (2( 8X,I5,F14.1,4X,I5,5X))
      WRITE (12,500) AREATOT
500 FORMAT (///,1H ,10X,18HMODEL AREA(FT**2) =,F20.2)

```

```

510 CONTINUE
C
C   READ GROUND SURFACE ELEVATION (GS ARRAY) IN (FT)
C
  READ (11,110) TITLE
  READ (11,520) INP,SFCT
520 FORMAT (I2,F10.0)
  IF (INP.EQ.1) READ (11,525) (NP,GS(NP),I = 1,NUMNP)
525 FORMAT (5(I5,F10.0))
  DO 530 I = 1,NUMNP
    IF (INP.EQ.1) THEN
      GS(I) = GS(I) * SFCT
    ELSEIF(INP .EQ. 0)THEN
      GS(I) = SFCT
    ENDIF
530 CONTINUE
C
  WRITE (12,531)
531 FORMAT (1H1,////,24X,' I N P U T   D A T A ')
  WRITE (12,532)
532 FORMAT (24X,'-----',//)
  WRITE (12,533)
533 FORMAT (4X,' GROUND SURFACE ELEVATION ')
  WRITE (12,534)
534 FORMAT (4X,'-----')
  WRITE (12,535)
535 FORMAT (4X,3(' NODE   GS ELEV   '))
  WRITE (12,536)
536 FORMAT (4X,3('-----   '))
  WRITE (12,537)(I,GS(I),I=1,NUMNP)
537 FORMAT (3(I8,F14.1,4X))
C
C   READ BEDROCK ELEVATION (ZBED ARRAY) IN (FT)
C
  READ (11,110) TITLE
  READ (11,920) INP,SFCT
920 FORMAT (I2,F10.0)
  IF (INP.EQ.1) READ (11,925) (NP,ZBED(NP),I = 1,NUMNP)
925 FORMAT (5(I5,F10.0))
  DO 930 I = 1,NUMNP
    IF (INP.EQ.1) THEN
      ZBED(I) = ZBED(I) * SFCT
    ELSEIF(INP .EQ. 0)THEN
      ZBED(I) = SFCT
    ENDIF
930 CONTINUE
C
  WRITE (12,931)
931 FORMAT (1H1,////,24X,' I N P U T   D A T A ')
  WRITE (12,932)
932 FORMAT (24X,'-----',//)
  WRITE (12,933)
933 FORMAT (4X,' BEDROCK ELEVATION ')
  WRITE (12,934)
934 FORMAT (4X,'-----')
  WRITE (12,938)
938 FORMAT (4X,3('   BEDROCK   '))
  WRITE (12,935)
935 FORMAT (4X,3(' NODE   ELEVATION   '))
  WRITE (12,936)
936 FORMAT (4X,3('-----   '))
  WRITE (12,937)(I,ZBED(I),I=1,NUMNP)
937 FORMAT (3(I8,F14.1,4X))
C
C   READ BASE OF AQUIFER ELEVATION (ZBASE ARRAY) IN (FT)

```

```

C
  READ (11,110) TITLE
  READ (11,940) INP,SFCT
940 FORMAT (I2,F10.0)
  IF (INP.EQ.1) READ (11,945) (NP,ZBASE(NP),I = 1,NUMNP)
945 FORMAT (5(I5,F10.0))
  DO 950 I = 1,NUMNP
    IF (INP.EQ.1) THEN
      ZBASE(I) = ZBASE(I) * SFCT
    ELSEIF (INP.EQ.0) THEN
      ZBASE(I) = SFCT
    ENDIF
  950 CONTINUE
C
  WRITE (12,951)
951 FORMAT (1H1,////,24X,'INPUT DATA')
  WRITE (12,952)
952 FORMAT (24X,'-----',//)
  WRITE (12,953)
953 FORMAT (4X,'BASE OF AQUIFER ')
  WRITE (12,954)
954 FORMAT (4X,'-----')
  WRITE (12,958)
958 FORMAT (4X,3(' AQUIFER BASE  '))
  WRITE (12,955)
955 FORMAT (4X,3(' NODE ELEVATION  '))
  WRITE (12,956)
956 FORMAT (4X,3('----- '))
  WRITE (12,957)(I,ZBASE(I),I=1,NUMNP)
957 FORMAT (3(I8,F14.1,4X))
C
C  READ HYDRAULIC CONDUCTIVITY FOR AQUIFER 1 ARRAY IN (FT/DAY)
C
  READ (11,110) TITLE
  READ (11,560) INP,SFCT
560 FORMAT (I2,F10.0)
  IF (INP.EQ.1) READ (11,570) (NP,HYDK1(NP),I = 1,NUMNP)
570 FORMAT (5(I5,F10.0))
  DO 590 I = 1,NUMNP
    IF (INP.NE.1) GO TO 580
    HYDK1(I) = HYDK1(I) * SFCT
    GO TO 590
  580 HYDK1(I) = SFCT
  590 CONTINUE
C
  WRITE (12,601)
601 FORMAT (1H1,////,24X,'INPUT DATA')
  WRITE (12,602)
602 FORMAT (24X,'-----',//)
  WRITE (12,603)
603 FORMAT (4X,'HYDRAULIC CONDUCTIVITY AQUIFER 1 - FT/DAY')
  WRITE (12,604)
604 FORMAT (4X,'-----')
  WRITE (12,605)
605 FORMAT (4X,3(' NODE HYDK1  '))
  WRITE (12,606)
606 FORMAT (4X,3('----- '))
  WRITE (12,607)(I,HYDK1(I),I=1,NUMNP)
607 FORMAT (3(I8,F12.1,4X))
C
C  READ HYDRAULIC CONDUCTIVITY FOR AQUIFER 2 ARRAY IN (FT/DAY)
C
  READ (11,110) TITLE
  READ (11,1060) INP,SFCT
1060 FORMAT (I2,F10.0)
  IF (INP.EQ.1) READ (11,1070) (NP,HYDK2(NP),I = 1,NUMNP)

```

```

1070 FORMAT (5(I5,F10.0))
DO 1090 I = 1,NUMNP
  IF (INP.NE.1) GO TO 1080
  HYDK2(I) = HYDK2(I) * SFCT
  GO TO 1090
1080 HYDK2(I) = SFCT
1090 CONTINUE
C
  WRITE (12,1091)
1091 FORMAT (1H1,////,24X,'INPUT DATA')
  WRITE (12,1092)
1092 FORMAT (24X,'-----',//)
  WRITE (12,1093)
1093 FORMAT (4X,'HYDRAULIC CONDUCTIVITY AQUIFER 2 - FT/DAY')
  WRITE (12,1094)
1094 FORMAT (4X,'-----')
  WRITE (12,1095)
1095 FORMAT (4X,3('NODE HYDK2 '))
  WRITE (12,1096)
1096 FORMAT (4X,3('----- '))
  WRITE (12,1097)(I,HYDK2(I),I=1,NUMNP)
1097 FORMAT (3(I8,F12.1,4X))
C
C .....READ STORAGE COEFFICIENT ARRAY IN (DIMENSIONLESS)
  READ (11,110) TITLE
  READ (11,610) INP,SFCT
610 FORMAT (I2,F10.0)
  S = SFCT
  IF (INP.EQ.1) READ (11,620) (NP,SC(NP),I = 1,NUMNP)
620 FORMAT (5(I5,F10.0))
  DO 640 I = 1,NUMNP
    IF (INP.NE.1) GO TO 630
    SC(I) = SC(I) * SFCT
    GO TO 640
630 SC(I) = SFCT
640 CONTINUE
C
  WRITE (12,641)
641 FORMAT (1H1,////,24X,'INPUT DATA')
  WRITE (12,642)
642 FORMAT (24X,'-----',//)
  WRITE (12,643)
643 FORMAT (4X,'STORAGE COEFFICIENT')
  WRITE (12,644)
644 FORMAT (4X,'-----')
  WRITE (12,648)
648 FORMAT (4X,3('STOR '))
  WRITE (12,645)
645 FORMAT (4X,3('NODE COEFF '))
  WRITE (12,646)
646 FORMAT (4X,3('----- '))
  WRITE (12,647)(I,SC(I),I=1,NUMNP)
647 FORMAT (3(I8,F10.6,5X))
C
C .....READ INITIAL HEAD ARRAY IN (FT)
  READ (11,110) TITLE
  READ (11,650) INP,SFCT
650 FORMAT (I2,F10.0)
  IF (INP.EQ.1) READ (11,660) (NP,HEAD(NP),I = 1,NUMNP)
660 FORMAT (5(I5,F10.0))
  DO 680 I = 1,NUMNP
    IF (INP.NE.1) GO TO 670
    HEAD(I) = HEAD(I) * SFCT
    GO TO 680
670 HEAD(I) = SFCT

```

```

680 CONTINUE
C
C .....SET INITIAL HEAD VALUE
DO 690 I = 1,NUMNP
690 HDI(I) = HEAD(I)
C
WRITE (12,691)
691 FORMAT (1H1,////,24X,'INPUT DATA')
WRITE (12,692)
692 FORMAT (24X,'-----',//)
WRITE (12,693)
693 FORMAT (4X,' INITIAL HEAD - FEET ')
WRITE (12,694)
694 FORMAT (4X,'-----')
WRITE (12,695)
695 FORMAT (4X,3(' NODE HEAD '))
WRITE (12,696)
696 FORMAT (4X,3('----- '))
WRITE (12,697)(I,HEAD(I),I=1,NUMNP)
697 FORMAT (3(I8,F13.1,5X))
C
C CALCULATE TRANSMISSIVITY ARRAY IN (FT*2/DAY)
C
IFLAG(1)=3
CALL TRANADJ
C
WRITE (12,1201)
1201 FORMAT (1H1,////,24X,'INPUT DATA')
WRITE (12,1202)
1202 FORMAT (24X,'-----',//)
WRITE (12,1203)
1203 FORMAT (4X,' TRANSMISSIVITY - FT**2/DAY')
WRITE (12,1204)
1204 FORMAT (4X,'-----')
WRITE (12,1205)
1205 FORMAT (4X,3(' NODE TRANS '))
WRITE (12,1206)
1206 FORMAT (4X,3('----- '))
WRITE (12,1207)(I,TRANS(I),I=1,NUMNP)
1207 FORMAT (3(I8,F12.1,4X))
C
C .....READ NODEID ARRAY
C NODE ID CODES FOR 1 - 10 ARE RESERVED FOR CONSTANT HEAD NODES
C REC = POINT RECHARGE OR DISCHARGE IN GPM
C "+" IS DISCHARGE(PUMPAGE),"-" IS RECHARGE(INJECTION)
C REC=FCTR1
C DRCOND=RIVER/DRAIN CONDUCTANCE (- IS RIVER)
C DRELEV=RIVER/DRAIN HEAD
C NCODNP = NUMBER OF NODE ID CODES TO BE DEFINED
C SPECIFY OTHER CODES TO FIT YOUR NEEDS
C
READ (11,110) TITLE
READ (11,700) NCODNP
700 FORMAT (I2)
DO 710 NP = 1,NUMNP
REC(NP) = 0.
NODEID(NP) = 0
QBSNODE(NP) = 0.
DRELEV(NP) = 0.
DRCOND(NP) = 0.
710 CONTINUE
DO 715 NS = 1,NBS
QGH(NS) = 0.
715 CONTINUE
C
IF (NCODNP.LE.0) GO TO 780

```



```

      READ (11,720) (NP,NODEID(NP),I = 1,NUMNP)
720 FORMAT (8(2I5))
      WRITE (12,730)
730 FORMAT (1H1,45X,21H I N P U T   D A T A /1H ,44X,23H-----
1-----//1H0,5X,19H NODE IDENTIFICATION /1H ,4X,21H-----
2-----/1H0,21X,9H NUMBER OF, /1H ,9X,7H NODE ID,5X,10H OCCURENCES,11
3X,3H REC,9X,6H DRCOND,6X,6H DRELEV)
      READ (11,110) TITLE
      DO 770 NID = 1,NCODNP
        KOUNT = 0
        READ (11,740) ICODE,FCTR1,FCTR2,FCTR3,FCTR4,FCTR5
740  FORMAT (I5,5F10.0)
        DO 750 I = 1,NUMNP
          IF (NODEID(I).NE.ICODE) GO TO 750
          KOUNT = KOUNT + 1
          REC(I) = FCTR1
          DRCOND(I) = FCTR2
          DRELEV(I) = FCTR3
750  CONTINUE
        WRITE (12,760) ICODE,KOUNT,FCTR1,FCTR2,FCTR3
760  FORMAT ((10X,I5,8X,I5,8X,1(F10.2,5X),2(F10.2,2X)))
770 CONTINUE
C
      WRITE (12,771)
771 FORMAT (1H1,////,24X,' I N P U T   D A T A ')
      WRITE (12,772)
772 FORMAT (24X,'-----',//)
      WRITE (12,773)
773 FORMAT (4X,' NODEID ARRAY ')
      WRITE (12,774)
774 FORMAT (4X,'-----')
      WRITE (12,775)
775 FORMAT (4X,3(' NODE   NODEID   '))
      WRITE (12,776)
776 FORMAT (4X,3('-----   '))
      WRITE (12,777)(I,NODEID(I),I = 1,NUMNP)
777 FORMAT (3(I8,I10,5X))
C
C .....CONVERT REC FROM GPM TO FT**3/DAY
780 DO 790 NP = 1,NUMNP
      REC(NP) = REC(NP)/7.48052 * 60 * 24
790 CONTINUE
C
C ..... INPUT THE GHB DATA
      READ(11,110) TITLE
      READ(11,800) NUMBS
800 FORMAT (I5)
      IF (NUMBS .LE. 0) GO TO 890
      IF (NUMBS .GT. NBS) THEN
        WRITE (*,805)
805  FORMAT(///,20X,'***** E R R O R  -- # INP4 *****')
        STOP
        RETURN
      END IF
      READ(11,110) TITLE
      DO 810 NS = 1,NUMBS
        GHBCOND(NS) = 0.
        GHBHEAD(NS) = 0.
        SLENGTH(NS) = 0.
        QGHB(NS) = 0.
810 CONTINUE
C
      DO 820 NS = 1,NUMBS
        READ(11,830) ISEGMENT,NGHB(NS,1),NGHB(NS,2),
+          GHBCOND(NS),GHBHEAD(NS)

```

```

830  FORMAT(3I5,F10.7,F10.1)
      IF (NGHB(NS,2) .LT. NGHB(NS,1)) THEN
          N1 = NGHB(NS,1)
          N2 = NGHB(NS,2)
          NGHB(NS,1) = N2
          NGHB(NS,2) = N1
      END IF
      SLENGTH(NS) = SQRT( ( X(NGHB(NS,1))-X(NGHB(NS,2)))**2 ) +
1      ( Y(NGHB(NS,1))-Y(NGHB(NS,2)))**2 )
820  CONTINUE
C
C
      WRITE(12,771)
      WRITE(12,772)
      WRITE(12,851)
851  FORMAT(5X,'GENERAL HEAD BOUNDARY SEGMENTS')
      WRITE(12,850)
850  FORMAT(/5X' SEGMENT NODE1 NODE2      COND      HEAD      LENGTH')
      WRITE(12,852)
852  FORMAT(5X,' --- --- --- --- ---')
      DO 860 NS = 1,NUMBS
          WRITE(12,865)NS,(NGHB(NS,J),J = 1,2),GHBCOND(NS),GHBHEAD(NS),
1          SLENGTH(NS)
865  FORMAT (5X,I5,3X,2(I5,1X),2X,F10.7,F10.1,F10.1)
860  CONTINUE
      GO TO 900
C
890  WRITE(12,771)
      WRITE(12,772)

      WRITE(12,892)
892  FORMAT (//,15X,'NO HEAD-DEPENDENT FLUX (GHB) SEGMENTS'///)
900  CONTINUE
C
C+++++
+++++
C  READ OBSERVED HEAD DATA
C+++++
+++++
      READ (11,110)TITLE
      READ (11,1840) NUMOB
1840  FORMAT (I5)
      DO 1860 I = 1,NUMOB
          READ (11,1850) NOBSW(I),OBSH(I)
1850  FORMAT (I10,F10.0)
1860  CONTINUE
C  *****
999  RETURN
      END
C*****
      SUBROUTINE FILWRK(STATE,EXTEN,FNAMEX)
C  THIS SUBROUTINE PROMPTS THE USER FOR A FILE NAME FOR INPUT OR
C  OUTPUT AND APPENDS A DEFAULT EXTENSION IF THE USER CHOOSES
C  STATE = 1ST/OLD/NEW = CHARACTER VAR. WHICH INDICATES IF THIS
C  THE FIRST TIME ANY FILE CALLED, OR IF IT IS AN OLD
C  (EXISTING) FILE OR NEW (TO BE CREATED) FILE.
C  *****
C
      CHARACTER  STATE*3, EXTEN*4, FNAMEX*20, ANSWER*1
      LOGICAL EXISTS

C
      ANSWER = 'Y'
10  FORMAT (A)
C

```

```

C .....PROMPT FOR THE FILE NAME, WITH OR WITHOUT THE EXTENSION
C IF THE FIRST PROMPT FOR A NAME, PROMPT FOR BASE FILE NAME
IF(STATE.NE.'1ST') GO TO 199
99 WRITE(*,100)
100 FORMAT(20X,' (D:FNAME?):=>')
READ(*,10) FNAMEX
I=INDEX(FNAMEX,' ')
IF(I.EQ.1) GOTO 99
C
C .....FIND THE LENGTH OF THE BASE FILE NAME (FNAME)
C IF JJ IS LESS THAN II, AN EXTENSION IS ALREADY IN THE NAME
199 I=INDEX(FNAMEX,' ')
J=INDEX(FNAMEX,'.')
IF(J.EQ.0) J=I
II=I-1
JJ=J-1
LEN=MIN(II,JJ)
C
C .....IF NO EXTEN GIVEN, SUGGEST THE DEFAULT INITIALLY
C NOTE: STATE = 1ST NOW CHANGED TO = OLD
IF (STATE.EQ.'1ST') THEN
IF (JJ.GE.II) FNAMEX=FNAMEX(1:LEN)//EXTEN
STATE='OLD'
ELSE IF (STATE.NE.'1ST'.AND.ANSWER.EQ.'Y') THEN
FNAMEX=FNAMEX(1:LEN)//EXTEN
END IF
C
C .....ASK FOR APPROVAL FOR THE FILE NAME "FNAMEX"
299 CONTINUE
IF(ANSWER.EQ.'Y') WRITE(*,300) FNAMEX
300 FORMAT(20X,'For this file, the default name is: ',A,/
+ 20X,' Is this ACCEpTable (Y/N?):=>')
IF(ANSWER.EQ.'N') WRITE(*,310) FNAMEX
310 FORMAT(20X,'For this file, the NEW name is: ',A,/
+ 20X,' Is this ACCEpTable (Y/N?):=>')
320 READ(*,10) ANSWER
IF (ANSWER.NE.'Y'.AND.ANSWER.NE.'N') THEN
WRITE(*,330)
330 FORMAT(20X,' Is this ACCEpTable (Y/N?):=>')
GO TO 320
END IF
IF (ANSWER.EQ.'N') GO TO 99
399 WRITE(*,400) FNAMEX
400 FORMAT(20X,' Using file named = ',A)
C
C ..... DETERMINE THE STATUS OF THE FILE "FNAMEX" AND COMPARE THIS
C TO THE EXPECTED STATUS "STATE"
INQUIRE(FILE=FNAMEX,EXIST=EXISTS)
IF (.NOT.EXISTS.AND.STATE.EQ.'OLD') THEN
WRITE(*,500) FNAMEX
500 FORMAT(20X,'***** ERROR -- cannot find file:',A,/
+ 40X,' -- TRY AGAIN'//)
GO TO 99
ELSE IF (EXISTS.AND.STATE.EQ.'NEW') THEN
510 WRITE(*,520) FNAMEX
520 FORMAT(20X,'***** WARNING -- file:',A,/
+ 20X,' already exists -- OK TO OVERWRITE (Y/N?):=>')
READ(*,10)ANSWER
IF (ANSWER.NE.'Y'.AND.ANSWER.NE.'N') GO TO 510
IF (ANSWER.EQ.'N') GO TO 99
END IF
C
999 RETURN
END
C*****

```

```

SUBROUTINE UPDATE
C
C THIS SUBROUTINE IS USED TO SELECTIVELY UPDATE SOME OR ANY OF THE
C MODEL INPUT DATA AT THE END OF EACH PUMPING PERIOD.
C *****
PARAMETER (NNP = 3500,NEL = 7000,IB = 75,NBS = 200)
C**** IMPLICIT REAL*8(A-H,O-Z)
COMMON /BLOCKA/ NUMNP,X(NNP),Y(NNP),NUMEL,NI(NEL),NJ(NEL),
1NK(NEL),TITLE(20),IBAND,IFLAG(5),TOL,RELAX
COMMON /BLOCKB/ NTIM,NPMP,PINT,TIMX,TINIT,TPDAY,SUMT,
1TDEL,TIMY
COMMON /BLOCKC/ NCODNP,NODEID(NNP),TRANS(NNP),HYDK1(NNP),THCK(NNP),
1REC(NNP),SC(NNP),S,HEAD(NNP),HDI(NNP)
COMMON /BLOCKD/ NCODEL,IDELEM(NEL),RECH(NEL),VPRM(NEL),AREA(NEL),
+ HDLEAK(NEL)
COMMON /BLOCKF/ QINRCH,QOUTRCH,QINREC,QOUTREC,QINCHN,QOUTCHN,
1QINLEK,QOUTLEK,QSTOR,QINGHB,QOUTGHB,QINDR,QOUTDR
COMMON /BLOCKG/ NUMBS,NGHB(NBS,2),GHBCOND(NBS),GHBHEAD(NBS),
1SLENGTH(NBS),QGHB(NBS),QBSNODE(NNP),QDR(NNP),DRCOND(NNP),
2DRELEV(NNP)
COMMON /BLOCKH/ PRINTIT
CHARACTER PRINTIT*1,CHANGEM*4
C *****
C
C *****
C UPDATE CONSTANT HEAD FOR NODEID 2&3
C *****
C IF(SUMT.GE.270.AND.SUMT.LE.360)THEN
C DO 2000 I = 1,NUMNP
C IF(NODEID(I).NE.10)GOTO 2000
C HEAD(I) = HEAD(I) + 1.5
C HDI(I) = HDI(I) + 1.5
C WRITE(6,*)I,HEAD(I)
C2000 CONTINUE
C ENDIF
C *****
C .....UPDATE PUMPING PERIOD DATA
100 WRITE (12,110)
110 FORMAT (1H1,45X,23HU P D A T E D A T A/1H ,44X,25H-----
1-----//)
READ (11,120) TITLE
WRITE (12,130) TITLE
120 FORMAT (20A4)
130 FORMAT (/1H ,20A4/, '-----',/)
C
C .....UPDATE TIME PARAMETERS
READ (11,120) TITLE
READ (11,140) PINT,PRINTIT,CHANGEM
140 FORMAT (F10.0,4X,A1,1X,A4)
WRITE (12,150) PINT,PRINTIT,CHANGEM
150 FORMAT (
+ /6X,'PINT (PUMPING PERIOD IN DAYS) =' ,2X,F7.2,
+ /6X,'PRINTIT (PRINT SOLUTION FOR THIS PERIOD) =' ,2X,A1,
+ /6X,'CHANGEM (UPDATE OPTION FOR THIS PERIOD) =' ,2X,A4)
C
IF (CHANGEM .EQ. 'NONE') GO TO 1000
IF (CHANGEM .EQ. 'LMNT') GO TO 300
C
C .....UPDATE NODE ID CODES
IF (NCODNP .LE. 0) GO TO 300
DO 160 NP = 1,NUMNP
160 REC(NP) = 0.
WRITE (12,180)
180 FORMAT (/1H0,5X,'NODE IDENTIFICATION'/5X,'-----',
1'-----'/1H0,21X,'NUMBER OF'/10X,'NODE ID'5X'OCCURENCES',11X

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```

2,'REC',9X,6HDRCOND,6X,6HDRELEV)
READ (11,120) TITLE
DO 220 NID = 1,NCODNP
  KOUNT = 0
  READ (11,190) ICODE,FCTR1,FCTR2,FCTR3
190 FORMAT (I5,3F10.0)
  DO 200 I = 1,NUMNP
    IF (NODEID(I).NE.ICODE) GO TO 200
    KOUNT = KOUNT + 1
    REC(I) = FCTR1
    DRCOND(I) = FCTR2
    DRELEV(I) = FCTR3
200  CONTINUE
    WRITE (12,210) ICODE,KOUNT,FCTR1,FCTR2,FCTR3
210 FORMAT ((10X,I5,8X,I5,8X,1(F10.2,5X),2(F10.2,2X)))
220 CONTINUE
C
C .....CONVERT REC FROM GPM TO FT**3/DAY
DO 230 NP = 1,NUMNP
  REC(NP) = REC(NP)/7.48052 * 60 * 24
230 CONTINUE
C
C IF (CHANGEM .EQ. 'NODE') GO TO 1000
C
C .....UPDATE ELEMENT ID CODES
300 IF (NCODEL.EQ.0) GO TO 1000
  DO 410 NE = 1,NUMEL
    RECH(NE) = 0.
    VPRM(NE) = 0.
    HDLEAK(NE)=0.
410 CONTINUE
  WRITE (12,430)
430 FORMAT (1H1,45X,21H /1H ,44X,23H
1 //1H0,5X,22HELEMENT IDENTIFICATION/1H ,4X,23H-----
2-----/1H0,21X,9HNUMBER OF,/1H ,9X,7HELEM ID,5X,10HOCCURENC
3ES,10X,5HRECH ,10X,4HVPRM,10X,'HDLEAK')
  READ (11,120) TITLE
  DO 470 NID = 1,NCODEL
    KOUNT = 0
    READ (11,440) ICODE,FCTR1,FCTR2,FCTR3,FCTR4,FCTR5
440 FORMAT (I5,5F10.0)
    DO 450 I = 1,NUMEL
      IF (IDELEM(I).NE.ICODE) GO TO 450
      KOUNT = KOUNT + 1
      RECH(I) = FCTR1
      VPRM(I) = FCTR2
      HDLEAK(I) = FCTR3
450  CONTINUE
      WRITE (12,460) ICODE,KOUNT,FCTR1,FCTR2,FCTR3
460 FORMAT ((10X,I5,8X,I5,8X,3(F10.7,5X)))
470 CONTINUE
C
1000 CONTINUE
999 RETURN
END
C*****
*
SUBROUTINE ELINTF(NCALL)
C THIS SUBROUTINE PERFORMS THE INTEGRATIONS REQUIRED FOR THE FLOW
C EQUATION. THESE INTEGRATIONS ARE CARRIED OUT IN A PIECEWISE
C MANNER ON AN ELEMENT BASIS. GLOBAL MATRICES ARE THEN FORMED BY
C SUMMING FOR A GIVEN NODE THE CONTRIBUTION TO THAT NODE FROM EACH
C ELEMENT. THESE GLOBAL MATRICES FOR THE FLOW EQUATION ARE BANDED
C AND SYMMETRIC.
C *****

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PARAMETER (NNP = 3500, NEL = 7000, IB = 75, NBS = 200)
C**** IMPLICIT REAL*8(A-H,O-Z)
COMMON /BLOCKA/ NUMNP, X(NNP), Y(NNP), NUMEL, NI(NEL), NJ(NEL),
1NK(NEL), TITLE(20), IBAND, IFLAG(5), TOL, RELAX
COMMON /BLOCKC/ NCODNP, NODEID(NNP), TRANS(NNP), HYDK1(NNP), THCK(NNP),
1REC(NNP), SC(NNP), S, HEAD(NNP), HDI(NNP)
COMMON /BLOCKD/ NCODEL, IDELEM(NEL), RECH(NEL), VPRM(NEL), AREA(NEL),
+ HDLEAK(NEL)
COMMON /BLOCKE/ AF(NNP,IB), BF(NNP,IB), DF(NNP), CM(NNP,IB), RHS(NNP)
COMMON /BLOCKG/ NUMBS, NGHBNBS(2), GHBCOND(NBS), GHBBHEAD(NBS),
1SLENGTH(NBS), QGHBNBS, QBSNODE(NNP), QDR(NNP), DRCOND(NNP),
2DRELEV(NNP)
COMMON /BLOCKT/ GS(NNP), ZBED(NNP), ZBASE(NNP), HYDK2(NNP)
C *****
IF (IFLAG(1).EQ.0.AND.NCALL.GT.1) GO TO 170
IF (IFLAG(1).EQ.2.AND.NCALL.GT.1) GO TO 170
IF (IFLAG(1).EQ.1 .OR. IFLAG(1) .EQ. 3)CALL TRANADJ
C
C PERFORM ELEMENT INTEGRATIONS ( A MATRIX - FLOW)
C
110 DO 120 I = 1, NUMNP
DO 120 J = 1, IBAND
120 AF(I,J) = 0.
C
DO 130 I = 1, NUMEL
TA4 = (TRANS(NI(I)) + TRANS(NJ(I)) + TRANS(NK(I)))/(AREA(I)*12.)
E1 = ((Y(NJ(I)) - Y(NK(I))) * (Y(NJ(I)) - Y(NK(I)))
1 + (X(NK(I)) - X(NJ(I))) * (X(NK(I)) - X(NJ(I)))) * TA4
E2 = ((Y(NK(I)) - Y(NI(I))) * (Y(NJ(I)) - Y(NK(I)))
1 + (X(NI(I)) - X(NK(I))) * (X(NK(I)) - X(NJ(I)))) * TA4
E3 = ((Y(NI(I)) - Y(NJ(I))) * (Y(NJ(I)) - Y(NK(I)))
1 + (X(NJ(I)) - X(NI(I))) * (X(NK(I)) - X(NJ(I)))) * TA4
E4 = ((Y(NK(I)) - Y(NI(I))) * (Y(NK(I)) - Y(NI(I)))
1 + (X(NI(I)) - X(NK(I))) * (X(NI(I)) - X(NK(I)))) * TA4
E5 = ((Y(NI(I)) - Y(NJ(I))) * (Y(NK(I)) - Y(NI(I)))
1 + (X(NJ(I)) - X(NI(I))) * (X(NI(I)) - X(NK(I)))) * TA4
E6 = ((Y(NI(I)) - Y(NJ(I))) * (Y(NI(I)) - Y(NJ(I)))
1 + (X(NJ(I)) - X(NI(I))) * (X(NJ(I)) - X(NI(I)))) * TA4
C
C .....LOCATE IN BANDED GLOBAL MATRIX (SYMMETRIC)
IJ = IABS(NI(I) - NJ(I)) + 1
IK = IABS(NI(I) - NK(I)) + 1
JK = IABS(NJ(I) - NK(I)) + 1
AF(NI(I),1) = AF(NI(I),1) + E1
IF (NI(I).LT.NJ(I)) AF(NI(I),IJ) = AF(NI(I),IJ) + E2
IF (NJ(I).LT.NI(I)) AF(NJ(I),IJ) = AF(NJ(I),IJ) + E2
IF (NI(I).LT.NK(I)) AF(NI(I),IK) = AF(NI(I),IK) + E3
IF (NK(I).LT.NI(I)) AF(NK(I),IK) = AF(NK(I),IK) + E3
AF(NJ(I),1) = AF(NJ(I),1) + E4
IF (NJ(I).LT.NK(I)) AF(NJ(I),JK) = AF(NJ(I),JK) + E5
IF (NK(I).LT.NJ(I)) AF(NK(I),JK) = AF(NK(I),JK) + E5
AF(NK(I),1) = AF(NK(I),1) + E6
C
C .....ADJUST COEFF. MATRIX FOR LEAKAGE TERMS
IF(IDELEM(I).NE.0 .AND. VPRM(I).NE.0.0) THEN
AF(NI(I),1) = AF(NI(I),1) - 2.*VPRM(I)*AREA(I)/12.
IF (NI(I).LT.NJ(I)) AF(NI(I),IJ) = AF(NI(I),IJ)
+ - VPRM(I)*AREA(I)/12.
IF (NJ(I).LT.NI(I)) AF(NJ(I),IJ) = AF(NJ(I),IJ)
+ - VPRM(I)*AREA(I)/12.
IF (NI(I).LT.NK(I)) AF(NI(I),IK) = AF(NI(I),IK)
+ - VPRM(I)*AREA(I)/12.
IF (NK(I).LT.NI(I)) AF(NK(I),IK) = AF(NK(I),IK)
+ - VPRM(I)*AREA(I)/12.
AF(NJ(I),1) = AF(NJ(I),1) - 2.*VPRM(I)*AREA(I)/12.
IF (NJ(I).LT.NK(I)) AF(NJ(I),JK) = AF(NJ(I),JK)

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+           - VPRM(I)*AREA(I)/12.
IF (NK(I).LT.NJ(I)) AF(NK(I),JK) = AF(NK(I),JK)
+           - VPRM(I)*AREA(I)/12.
AF(NK(I),1) = AF(NK(I),1) - 2.*VPRM(I)*AREA(I)/12.
END IF
130 CONTINUE
C
C .....ADJUST COEFF. FOR HEAD-DEPENDANT NODES (DRAINS/RIVERS)
DO 135 NP = 1, NUMNP
IF(NODEID(NP).GE.1 .AND. NODEID(NP).LE.10) GO TO 135
AF(NP,1) = AF(NP,1) + ABS(DRCOND(NP))
135 CONTINUE
C
C .....ADJUST COEFF. FOR GHB CONTRIBUTION FOR BOUNDARY SEGMENT NODES
IF (NUMBS .GT. 0) THEN
DO 140 NS = 1, NUMBS
AF(NGHB(NS,1),1) = AF(NGHB(NS,1),1) +
+ ((1/2.)* SLENGTH(NS)*GHBCOND(NS))
AF(NGHB(NS,2),1) = AF(NGHB(NS,2),1) +
+ ((1/2.)* SLENGTH(NS)*GHBCOND(NS))
140 CONTINUE
END IF
C
C *****
IF (NCALL.GT.1) GO TO 170
C
C *****
C
C .....PERFORM ELEMENT INTEGRATIONS ( B MATRIX - FLOW)
DO 145 I = 1, NUMNP
DO 145 J = 1, IBAND
145 BF(I,J) = 0.
C
DO 160 I = 1, NUMEL
E1 = (3*SC(NI(I)) + SC(NJ(I)) + SC(NK(I))) * AREA(I)/30.
E2 = (2*SC(NI(I)) + 2*SC(NJ(I)) + SC(NK(I))) * AREA(I)/60.
E3 = (2*SC(NI(I)) + SC(NJ(I)) + 2*SC(NK(I))) * AREA(I)/60.
E4 = ( SC(NI(I)) + 3*SC(NJ(I)) + SC(NK(I))) * AREA(I)/30.
E5 = ( SC(NI(I)) + 2*SC(NJ(I)) + 2*SC(NK(I))) * AREA(I)/60.
E6 = ( SC(NI(I)) + SC(NJ(I)) + 3*SC(NK(I))) * AREA(I)/30.
C
C .....MASS LUMPING
E1 = E1 + E2 + E3
E4 = E2 + E4 + E5
E6 = E3 + E5 + E6
E2 = 0.
E3 = 0.
E5 = 0.
C
C .....LOCATE IN BANDED GLOBAL MATRIX (SYMMETRIC)
150 IJ = IABS(NI(I) - NJ(I)) + 1
IK = IABS(NI(I) - NK(I)) + 1
JK = IABS(NJ(I) - NK(I)) + 1
BF(NI(I),1) = BF(NI(I),1) + E1
IF (NI(I).LT.NJ(I)) BF(NI(I),IJ) = BF(NI(I),IJ) + E2
IF (NJ(I).LT.NI(I)) BF(NJ(I),IJ) = BF(NJ(I),IJ) + E2
IF (NI(I).LT.NK(I)) BF(NI(I),IK) = BF(NI(I),IK) + E3
IF (NK(I).LT.NI(I)) BF(NK(I),IK) = BF(NK(I),IK) + E3
BF(NJ(I),1) = BF(NJ(I),1) + E4
IF (NJ(I).LT.NK(I)) BF(NJ(I),JK) = BF(NJ(I),JK) + E5
IF (NK(I).LT.NJ(I)) BF(NK(I),JK) = BF(NK(I),JK) + E5
BF(NK(I),1) = BF(NK(I),1) + E6
160 CONTINUE
C
C .....PERFORM ELEMENT INTEGRATION ( MATRICES D,E&F - FLOW)
C LOCATE IN GLOBAL MATRIX
170 DO 180 NP = 1, NUMNP

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180 DF(NP) = 0.
C
DO 200 NE = 1,NUMEL
  QLEK = 0.
  QRECH = 0.
  IF (VPRM(NE) .NE. 0.0) THEN
    QLEK = - VPRM(NE) * AREA(NE) * HDLEAK(NE) / 3.
  END IF
  QRECH = RECH(NE) * AREA(NE)/3.
  DF(NI(NE)) = DF(NI(NE)) + QRECH + QLEK
  DF(NJ(NE)) = DF(NJ(NE)) + QRECH + QLEK
  DF(NK(NE)) = DF(NK(NE)) + QRECH + QLEK
200 CONTINUE
C
C .....ADD HEAD-DEPENDANT NODES (DRAINS AND RIVERS) AND POINT SOURCE
C (WELLS) TO SOURCE VECTOR, EXCLUDING CONSTANT HEAD FLOWS
C DRCOND = +, DRAIN DRCOND = -, RIVER
DO 220 NP=1,NUMNP
  IF (NODEID(NP).GE.1 .AND. NODEID(NP).LE.10) THEN
    REC(NP) = 0.0
    DRCOND(NP) = 0.0
  END IF
  IF (HEAD(NP).GT.DRELEV(NP) .AND. DRCOND(NP).GT.0.0) THEN
    DF(NP) = DF(NP) - DRCOND(NP)*DRELEV(NP)
  ELSEIF (HEAD(NP).LE.DRELEV(NP) .AND. DRCOND(NP).LT.0.0) THEN
    DF(NP) = DF(NP) - ( ABS(DRCOND(NP)) ) *DRELEV(NP)
  ELSE
    DF(NP) = DF(NP) + REC(NP)
  END IF
220 CONTINUE
C
C .....ADD GHB CONTRIBUTIONS TO POINT SOURCE VECTOR
IF (NUMBS .GT. 0) THEN
  DO 235 NS = 1,NUMBS
    DO 230 NP = 1,NUMNP
      IF (NP .EQ. NGHBS(NS,1)) THEN
        DF(NP)=DF(NP)-0.5*SLENGTH(NS)*GHBCOND(NS)*GHBHEAD(NS)
      ELSE IF (NP .EQ. NGHBS(NS,2)) THEN
        DF(NP)=DF(NP)-0.5*SLENGTH(NS)*GHBCOND(NS)*GHBHEAD(NS)
      END IF
    230 CONTINUE
    235 CONTINUE
  END IF
C
999 RETURN
END
C*****
*
SUBROUTINE MATSOL
PARAMETER (NNP=3500,NEL=7000,IB=75,NBS=200)
C*****IMPLICIT REAL*8(A-H,O-Z)
COMMON /BLOCKA/ NUMNP,X(NNP),Y(NNP),NUMEL,NI(NEL),NJ(NEL),
1NK(NEL),TITLE(20),IBAND,IFLAG(5),TOL,RELAX
COMMON /BLOCKB/ NTIM,NPMP,PINT,TIMX,TINIT,TPDAY,SUMT,
1TDEL,TIMY
COMMON /BLOCKC/NCODNP,NODEID(NNP),TRANS(NNP),HYDK1(NNP),THCK(NNP),
1REC(NNP),SC(NNP),S,HEAD(NNP),HDI(NNP)
COMMON /BLOCKE/ AF(NNP,IB),BF(NNP,IB),DF(NNP),CM(NNP,IB),RHS(NNP)
COMMON /BLOCKG/ NUMBS,NGHBS(NBS,2),GHBCOND(NBS),GHBHEAD(NBS),
1SLENGTH(NBS),QGHB(NBS),QBSNODE(NNP),QDR(NNP),DRCOND(NNP),
2DRELEV(NNP)
DIMENSION TMP(NNP)
COMMON /BLOCKH/ PRINTIT
CHARACTER*1 PRINTIT
C *****
C THIS SUBROUTINE ASSEMBLES AND SOLVES THE FLOW EQUATION

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C (MATRIX(AF) + (MATRIX(BF)/TDEL)) = LHS COEFFICIENT MATRIX(CM)
C (((MATRIX(BF)/TDEL) * VECTOR(HEAD)) - VECTOR(DF)) = KNOWN RHS VECTOR
C SOLUTION IS BY BANDED GAUSSIAN ELIMINATION
C *****
C
C .....COEFFICIENT MATRIX
C DO 100 I = 1,NUMNP
C   DO 100 J = 1,IBAND
C     CM(I,J) = AF(I,J) + BF(I,J)/TDEL
C 100 CONTINUE
C
C .....RHS VECTOR
C CALL MULT (NUMNP,IBAND,BF,HEAD,RHS)
C DO 110 I = 1,NUMNP
C 110 RHS(I) = RHS(I)/TDEL - DF(I)
C
C .....BLAST CONSTANT HEAD NODES
C DO 115 I = 1,NUMNP
C   TMP(I) = RHS(I)
C 115 CONTINUE
C
C DO 120 I = 1,NUMNP
C   IF ((NODEID(I) .EQ. 0) .OR. (NODEID(I) .GT. 10)) GO TO 120
C   RHS(I) = RHS(I) - CM(I,1) * HEAD(I)
C   CM(I,1) = 1.0E+10
C   RHS(I) = RHS(I) + CM(I,1) * HEAD(I)
C 120 CONTINUE
C
C .....SOLVE MATRIX EQUATION BY GAUSS ELIMINATION
C CALL UDU(NUMNP,IBAND,CM,RHS)
C
C WRITE (7,155) SUMT
C WRITE (*,155) SUMT
C 155 FORMAT (/5X,28HMATSOL-UDU GAUSS ELIMINATION,10X,5HTIME=,F12.7)
C DO 160 I = 1,NUMNP
C 160 HEAD(I) = RHS(I)
C
C .....CALCULATE FLOW FROM CONSTANT HEAD NODES
C DO 170 I = 1,NUMNP
C   DO 165 J = 1,IBAND
C     CM(I,J) = AF(I,J) + BF(I,J)/TDEL
C 165 CONTINUE
C   RHS(I) = TMP(I)
C 170 CONTINUE
C
C CALL MULT (NUMNP,IBAND,CM,HEAD,DF)
C
C DO 175 I = 1,NUMNP
C   IF ((NODEID(I) .EQ. 0) .OR. (NODEID(I) .GT. 10)) GO TO 175
C   REC(I) = RHS(I) - DF(I)
C 175 CONTINUE
C
C 1000 RETURN
C END
C SUBROUTINE UDU(NUMNP,IBAND,A,B)
C   PARAMETER (NNP=3500,NEL=7000,IB=75,NBS=200)
C ***** IMPLICIT REAL*8(A-H,O-Z)
C   DIMENSION A(NNP,IB),B(NNP)
C *****
C
C THIS SUBROUTINE SOLVES THE MATRIX EQUATION AX=B BY GAUSSIAN
C ELIMINATION. THE MATRIX (A) IS A BANDED SYMMETRIC MATRIX AND (X)
C AND (B) ARE COLUMN VECTORS. THE RESULT IS RETURNED IN VECTOR (B).
C NUMNP = NUMBER OF EQUATIONS AND IBAND=BANDWIDTH
C *****

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```

C
NEM1 = NUMNP - 1
C
DO 120 I = 1,NEM1
  JEND = NUMNP - I + 1
  IF (JEND.GT.IBAND) JEND = IBAND
C
DO 110 J = 2,JEND
  J1 = I + J - 1
C
  FAC = A(I,J)/A(I,1)
C
  K1 = 0
  DO 100 K = J,JEND
C
    K1 = K1 + 1
    A(J1,K1) = A(J1,K1) - A(I,K) * FAC
100  CONTINUE
    A(I,J) = FAC
C
    B(J1) = B(J1) - B(I) * A(I,J)
110  CONTINUE
120  CONTINUE
C
C  BACK SUBSTITUTION
C
B(NUMNP) = B(NUMNP)/A(NUMNP,1)
C
DO 140 I = 1,NEM1
  I1 = NUMNP - I
  B(I1) = B(I1)/A(I1,1)
  JEND = NUMNP - I1 + 1
  IF (JEND.GT.IBAND) JEND = IBAND
  DO 130 J = 2,JEND
    J1 = I1 + J - 1
    B(I1) = B(I1) - A(I1,J) * B(J1)
130  CONTINUE
140  CONTINUE
C
999 RETURN
END
C*****
*
SUBROUTINE MULT(NUMNP,IBAND,A,X,Y)
PARAMETER (NNP=3500,NEL=7000,IB=75,NBS=200)
C*****IMPLICIT REAL*8(A-H,O-Z)
DIMENSION A(NNP,IB),X(NNP),Y(NNP)
C
C *****
C
C THIS SUBROUTINE MULTIPLIES A BANDED SYMMETRIC MATRIX TIMES A
C VECTOR. THE PRODUCT OF MATRIX(A) AND VECTOR(X) IS VECTOR(Y).
C
C *****
C
C IBAND MUST BE .LE. (NUMNP/2)
C CHECK LIMITS ON IBAND
C
IBT2 = IBAND * 2
C
IF (IBT2 .GT. NUMNP) THEN
  WRITE (7,100)
  WRITE (*,100)
100  FORMAT (///,9X,'*** E R R O R *** # MULT1 ',/
1    ' IBAND MUST BE LESS OR EQUAL TO (NUMNP/2)',//)
  STOP

```

```

      END IF
C *****
C
C (1) ROW
110 Y(1) = 0.
    DO 120 J = 1,IBAND
120 Y(1) = A(1,J) * X(J) + Y(1)
C
C (2) TO (IBAND) ROW
    DO 150 I = 2,IBAND
      Y(I) = 0.
      IR = I - 1
      DO 130 J = 1,IBAND
        IR = IR + 1
130 Y(I) = A(I,J) * X(IR) + Y(I)
        JC = 1
        IR = I
        DO 140 K = 2,I
          JC = JC + 1
          IR = IR - 1
140 Y(I) = A(IR,JC) * X(IR) + Y(I)
150 CONTINUE
C
C (IBAND+1) TO (NUMNP-(IBAND-1)) ROW
    KR = NUMNP - IBAND + 1
    IBP1 = IBAND + 1
    DO 180 I = IBP1,KR
      Y(I) = 0.
      IR = I - 1
      DO 160 J = 1,IBAND
        IR = IR + 1
160 Y(I) = A(I,J) * X(IR) + Y(I)
        JC = 1
        IR = I
        DO 170 K = 2,IBAND
          JC = JC + 1
          IR = IR - 1
170 Y(I) = A(IR,JC) * X(IR) + Y(I)
180 CONTINUE
C
C (NUMNP-IBAND+2) TO (NUMNP) ROW
    KR = NUMNP - IBAND + 2
    KC = IBAND - 1
    DO 210 I = KR,NUMNP
      Y(I) = 0.
      IR = I - 1
      DO 190 J = 1,KC
        IR = IR + 1
190 Y(I) = A(I,J) * X(IR) + Y(I)
        JC = 1
        IR = I
        DO 200 K = 2,IBAND
          JC = JC + 1
          IR = IR - 1
200 Y(I) = A(IR,JC) * X(IR) + Y(I)
        KC = KC - 1
210 CONTINUE
C
999 RETURN
      END
C*****
*
      SUBROUTINE MATFLOW
C THIS SUBROUTINE ASSEMBLES AND SOLVES THE FLOW EQUATION
C (MATRIX(AF) + (MATRIX(BF)/TDEL)) = LHS COEFFICIENT MATRIX

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C      (((MATRIX(BF)/TDEL) * VECTOR(HEAD)) - VECTOR(DF)) = KNOWN RHS VECTOR
C      SOLUTION IS BY THE POINT SUCCESSIVE OVERRELAXATION ITERATIVE METHOD
C      *****
C      PARAMETER (NNP=3500,NEL=7000,IB=75,NBS=200)
C*****IMPLICIT REAL*8(A-H,O-Z)
COMMON /BLOCKA/ NUMNP,X(NNP),Y(NNP),NUMEL,NI(NEL),NJ(NEL),
1NK(NEL),TITLE(20),IBAND,IFLAG(5),TOL,RELAX
COMMON /BLOCKB/ NTIM,NPMP,PINT,TIMX,TINIT,TPDAY,SUMT,
+TDEL,TIMY
COMMON /BLOCKC/NCODNP,NODEID(NNP),TRANS(NNP),HYDK1(NNP),THCK(NNP),
1REC(NNP),SC(NNP),S,HEAD(NNP),HDI(NNP)
COMMON /BLOCKE/ AF(NNP,IB),BF(NNP,IB),DF(NNP),CM(NNP,IB),RHS(NNP)
COMMON /BLOCKH/ PRINTIT
CHARACTER*1 PRINTIT
C      *****
C
C      .....ABSOLUTE CONVERGENCE TEST
C      .....(1) ROW
SUM = 0.
DO 100 J = 2,IBAND
100 SUM = (AF(1,J) + BF(1,J)/TDEL) + SUM
IF (SUM.GT.(AF(1,1) + BF(1,1)/TDEL)) GO TO 170
C
C      .....(2) TO (IBAND) ROW
DO 130 I = 2,IBAND
SUM = 0.
DO 110 J = 2,IBAND
110 SUM = (AF(I,J) + BF(I,J)/TDEL) + SUM
JC = 1
IR = I
DO 120 K = 2,I
JC = JC + 1
IR = IR - 1
120 SUM = (AF(IR,JC) + BF(IR,JC)/TDEL) + SUM
IF (SUM.GT.(AF(I,1) + BF(I,1)/TDEL)) GO TO 170
130 CONTINUE
C
C      .....(IBAND+1) TO (NUMNP) ROW
IBP1 = IBAND + 1
DO 160 I = IBP1,NUMNP
SUM = 0.
DO 140 J = 2,IBAND
140 SUM = (AF(I,J) + BF(I,J)/TDEL) + SUM
JC = 1
IR = I
DO 150 K = 2,IBAND
JC = JC + 1
IR = IR - 1
150 SUM = (AF(IR,JC) + BF(IR,JC)/TDEL) + SUM
IF (SUM.GT.(AF(I,1) + BF(I,1)/TDEL)) GO TO 170
160 CONTINUE
GO TO 190
170 WRITE (7,180)
WRITE (*,180)
180 FORMAT (///,1H0,
+10X,' ***** E R R O R -- #PISOR1 ***WARNING***',
+10X,' ABSOLUTE CONVERGENCE TEST FAILED IN MATFLOW'///)
190 CONTINUE
C
C      .....CHECK ON TOL VS. AQUIFER THICKNESS
DO 195 IPNT = 1,NUMNP
IF (TRANS(IPNT) .LE. 0.1) GO TO 195
TOLCHK = TOL / ( TRANS(IPNT)/HYDK1(IPNT) )
IF (TOLCHK .GE. 0.01) THEN
WRITE (*,194) IPNT
WRITE (7,194) IPNT

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194  FORMAT(/,
+ 10X,' ***** E R R O R -- PISOR2 *** WARNING ***'/
+ 10X,'AT NODE ',I4,' THE TOLERANCE (TOL) IS WITHIN 1 PERCENT O
+ F THE THICKNESS',/)
      GO TO 198
    END IF
195 CONTINUE
198 CONTINUE
C
C .....RHS VECTOR
CALL MULT (NUMNP,IBAND,BF,HEAD,RHS)
DO 200 I = 1,NUMNP
200 RHS(I) = RHS(I)/TDEL - DF(I)
C *****
ITMAX = 200
C *****
DO 390 IT = 1,ITMAX
  ERROR = 0.0
C
C .....(1) ROW
SUM = 0.
DO 210 J = 2,IBAND
210 SUM = (AF(1,J) + BF(1,J)/TDEL) * HEAD(J) + SUM
  IF (NODEID(1).EQ.0.OR.NODEID(1).GT.10) GO TO 220
  REC(1) = RHS(1) - SUM - ((AF(1,1) + BF(1,1)/TDEL) * HEAD(1))
  GO TO 230
220 HNEW = (RHS(1) - SUM)/(AF(1,1) + BF(1,1)/TDEL)
  RESID = HNEW - HEAD(1)
  HEAD(1) = HEAD(1) + RELAX * RESID
  RESID = ABS(RESID)
  ERROR = AMAX1(ERROR,RESID)
230 CONTINUE
C
C .....(2) TO (IBAND) ROW
DO 270 I = 2,IBAND
  SUM = 0.
  IR = I
  DO 240 J = 2,IBAND
    IR = IR + 1
240 SUM = (AF(I,J) + BF(I,J)/TDEL) * HEAD(IR) + SUM
    JC = 1
    IR = I
    DO 250 K = 2,I
      JC = JC + 1
      IR = IR - 1
250 SUM = (AF(IR,JC) + BF(IR,JC)/TDEL) * HEAD(IR) + SUM
    IF (NODEID(I).EQ.0.OR.NODEID(I).GT.10) GO TO 260
    REC(I) = RHS(I) - SUM - ((AF(I,1) + BF(I,1)/TDEL) * HEAD(I))
    GO TO 270
260 HNEW = (RHS(I) - SUM)/(AF(I,1) + BF(I,1)/TDEL)
  RESID = HNEW - HEAD(I)
  HEAD(I) = HEAD(I) + RELAX * RESID
  RESID = ABS(RESID)
  ERROR = AMAX1(ERROR,RESID)
270 CONTINUE
C
C .....(IBAND+1) TO (NUMNP-(IBAND-1)) ROW
KR = NUMNP - IBAND + 1
IBP1 = IBAND + 1
DO 310 I = IBP1,KR
  SUM = 0.
  IR = I
  DO 280 J = 2,IBAND
    IR = IR + 1
280 SUM = (AF(I,J) + BF(I,J)/TDEL) * HEAD(IR) + SUM

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```

      JC = 1
      IR = I
      DO 290 K = 2,IBAND
        JC = JC + 1
        IR = IR - 1
290    SUM = (AF(IR,JC) + BF(IR,JC)/TDEL) * HEAD(IR) + SUM
      IF (NODEID(I).EQ.0.OR.NODEID(I).GT.10) GO TO 300
      REC(I) = RHS(I) - SUM - ((AF(I,1) + BF(I,1)/TDEL) * HEAD(I))
      GO TO 310
300    HNEW = (RHS(I) - SUM)/(AF(I,1) + BF(I,1)/TDEL)
      RESID = HNEW - HEAD(I)
      HEAD(I) = HEAD(I) + RELAX * RESID
      RESID = ABS(RESID)
      ERROR = AMAX1(ERROR,RESID)
310    CONTINUE
C
C      .....(NUMNP-IBAND+2) TO (NUMNP-1) ROW
      NUMNP1 = NUMNP - 1
      KR = NUMNP - IBAND + 2
      KC = IBAND - 1
      DO 350 I = KR,NUMNP1
        SUM = 0.
        IR = I
        DO 320 J = 2,KC
          IR = IR + 1
320    SUM = (AF(I,J) + BF(I,J)/TDEL) * HEAD(IR) + SUM
          JC = 1
          IR = I
          DO 330 K = 2,IBAND
            JC = JC + 1
            IR = IR - 1
330    SUM = (AF(IR,JC) + BF(IR,JC)/TDEL) * HEAD(IR) + SUM
          IF (NODEID(I).EQ.0.OR.NODEID(I).GT.10) GO TO 340
          REC(I) = RHS(I) - SUM - ((AF(I,1) + BF(I,1)/TDEL) * HEAD(I))
          GO TO 350
340    HNEW = (RHS(I) - SUM)/(AF(I,1) + BF(I,1)/TDEL)
          RESID = HNEW - HEAD(I)
          HEAD(I) = HEAD(I) + RELAX * RESID
          RESID = ABS(RESID)
          ERROR = AMAX1(ERROR,RESID)
          KC = KC - 1
350    CONTINUE
C
C      .....(NUMNP) ROW
      SUM = 0.
      JC = 1
      IR = NUMNP
      DO 360 K = 2,IBAND
        JC = JC + 1
        IR = IR - 1
360    SUM = (AF(IR,JC) + BF(IR,JC)/TDEL) * HEAD(IR) + SUM
      IF (NODEID(NUMNP).EQ.0.OR.NODEID(NUMNP).GT.10) GO TO 370
      REC(NUMNP) = RHS(NUMNP) - SUM - ((AF(NUMNP,1) + BF(NUMNP,1)/TDE
1  L) * HEAD(NUMNP))
      GO TO 380
370    HNEW = (RHS(NUMNP) - SUM)/(AF(NUMNP,1) + BF(NUMNP,1)/TDEL)
      RESID = HNEW - HEAD(NUMNP)
      HEAD(NUMNP) = HEAD(NUMNP) + RELAX * RESID
      RESID = ABS(RESID)
      ERROR = AMAX1(ERROR,RESID)
380    IF (ERROR.LE.TOL) GO TO 410
390    CONTINUE
C
      WRITE (7,400)
      WRITE (*,400)
400    FORMAT (////,1H1,

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```

+ 10X,'      ***** E R R O R -- #PISOR3 *****',/
+ 10X,'STOP--MAXIMUM ALLOWABLE NUMBER OF ITERATIONS HAS BEEN',/
+ 10X,'REACHED IN SUBROUTINE MATFLOW (NO SOLUTION REACHED)')///
STOP
C
410 WRITE (7,420) IT,SUMT
    WRITE (*,420) IT,SUMT
420 FORMAT (/,5X'MATFLOW ITERATIONS='I5,10X'TIME='F12.7)
C
440 RETURN
    END
    SUBROUTINE WATBAL
C *****
C THIS SUBROUTINE CALCULATES A WATER BALANCE
C *****
    PARAMETER (NNP = 3500,NEL = 7000,IB = 75,NBS = 200)
C *****IMPLICIT REAL*8(A-H,O-Z)
    COMMON /BLOCKA/ NUMNP,X(NNP),Y(NNP),NUMEL,NI(NEL),NJ(NEL),
    1NK(NEL),TITLE(20),IBAND,IFLAG(5),TOL,RELAX
    COMMON /BLOCKB/ NTIM,NPMP,PINT,TIMX,TINIT,TPDAY,SUMT,
    1TDEL,TIMY
    COMMON /BLOCKC/ NCODNP,NODEID(NNP),TRANS(NNP),HYDK1(NNP),THCK(NNP),
    1REC(NNP),SC(NNP),S,HEAD(NNP),HDI(NNP)
    COMMON /BLOCKD/ NCODEL,IDELEM(NEL),RECH(NEL),VPRM(NEL),AREA(NEL),
    + HDLEAK(NEL)
    COMMON /BLOCKF/ QINRCH,QOUTRCH,QINREC,QOUTREC,QINCHN,QOUTCHN,
    1QINLEK,QOUTLEK,QSTOR,QINGHB,QOUTGHB,QINDR,QOUTDR
    COMMON /BLOCKG/ NUMBS,NGHB(NBS,2),GHBCOND(NBS),GHBCOND(NBS),
    1SLENGTH(NBS),QGHBC(NBS),QBSNODE(NNP),QDR(NNP),DRCOND(NNP),
    2DRELEV(NNP)
    COMMON /BLOCKH/ PRINTIT
    CHARACTER*1 PRINTIT
C *****
C
C .....CALCULATE FLUX FROM DISTRIBUTED RECHARGE AND DISCHARGE SOURCE
DO 110 NE = 1,NUMEL
    IF (RECH(NE).GT.0.0) GO TO 100
    QINRCH = RECH(NE) * AREA(NE) * TDEL + QINRCH
    GO TO 110
100 QOUTRCH = RECH(NE) * AREA(NE) * TDEL + QOUTRCH
110 CONTINUE
C
C .....CALCULATE FLUX FROM POINT RECHARGE AND DISCHARGE SOURCES
C (EXCLUDING CONSTANT HEAD NODES)
DO 130 NP = 1,NUMNP
    IF (NODEID(NP).GE.1.AND.NODEID(NP).LE.10) GO TO 130
    IF (REC(NP).GT.0.0) GO TO 120
    QINREC = REC(NP) * TDEL + QINREC
    GO TO 130
120 QOUTREC = REC(NP) * TDEL + QOUTREC
130 CONTINUE
C
C .....CALCULATE FLUX FROM POINT RECHARGE AND DISCHARGE SOURCES
C (AT CONSTANT HEAD NODES ONLY)
DO 150 NP = 1,NUMNP
    IF (NODEID(NP).EQ.0.OR.NODEID(NP).GT.10) GO TO 150
    IF (REC(NP).GT.0.0) GO TO 140
    QINCHN = REC(NP) * TDEL + QINCHN
    GO TO 150
140 QOUTCHN = REC(NP) * TDEL + QOUTCHN
150 CONTINUE
C
C .....CALCULATE FLUX FROM VERTICAL LEAKAGE
DO 170 NE = 1,NUMEL
    IF (VPRM(NE).EQ.0.0) GO TO 170

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HEADBAR = (HEAD(NI(NE)) + HEAD(NJ(NE)) + HEAD(NK(NE)))/3.
VLEK = VPRM(NE) * (HEADBAR - HDLEAK(NE)) * AREA(NE)
IF (VLEK.GT.0.0) GO TO 160
QINLEK = VLEK * TDEL + QINLEK
GO TO 170
160 QOUTLEK = VLEK * TDEL + QOUTLEK
170 CONTINUE
C
C .....CALCULATE FLUX FROM HEAD-DEPENDANT NODES (DRAINS AND RIVERS)
C DRCOND = +, DRAIN DRCOND = -, RIVER
DO 180 NP=1,NUMNP
  IF (NODEID(NP).GE.1 .AND. NODEID(NP).LE.10) GO TO 180
  IF (DRCOND(NP) .EQ. 0.0) THEN
    GO TO 180
  ELSEIF (HEAD(NP).LE.DRELEV(NP) .AND. DRCOND(NP).GT.0.0) THEN
    GO TO 180
  ELSEIF (HEAD(NP).LE.DRELEV(NP) .AND. DRCOND(NP).LT.0.0) THEN
    QDR(NP) = (ABS(DRCOND(NP))) * (HEAD(NP)-DRELEV(NP))
    QINDR = QINDR + QDR(NP)*TDEL
  ELSE
    QDR(NP) = DRCOND(NP) * (HEAD(NP)-DRELEV(NP))
    QOUTDR = QOUTDR + QDR(NP)*TDEL
  END IF
180 CONTINUE
C
C .....CALCULATE GHB FLOW IN OR OUT OF THE DOMAIN
C
C IF (NUMBS .GT. 0) THEN
  DO 200 NS = 1,NUMBS
    QBSNODE(NGHB(NS,1)) = (SLENGTH(NS)*GHBCOND(NS))*
1 (HEAD(NGHB(NS,1))/3. + HEAD(NGHB(NS,2))/6.-GHBHEAD(NS)/2.)
    QBSNODE(NGHB(NS,2)) = (SLENGTH(NS)*GHBCOND(NS))*
1 (HEAD(NGHB(NS,2))/3. + HEAD(NGHB(NS,1))/6.-GHBHEAD(NS)/2.)
    QGHB(NS) = QBSNODE(NGHB(NS,1)) + QBSNODE(NGHB(NS,2))
    IF (QGHB(NS) .GT. 0.) GO TO 190
    QINGHB = QINGHB + QGHB(NS)*TDEL
    GO TO 200
190 QOUTGHB = QOUTGHB + QGHB(NS)*TDEL
200 CONTINUE
  END IF
C
C .....CALCULATE CHANGE IN STORAGE IN THE AQUIFER
QSTOR = 0.
DO 260 NE = 1,NUMEL
  HEADBAR = (HEAD(NI(NE)) + HEAD(NJ(NE)) + HEAD(NK(NE)))/3.
  HDIBAR = (HDI(NI(NE)) + HDI(NJ(NE)) + HDI(NK(NE)))/3.
  SA = (SC(NI(NE)) + SC(NJ(NE)) + SC(NK(NE)))/3.
260 QSTOR = SA * (HDIBAR - HEADBAR) * AREA(NE) + QSTOR
C
999 RETURN
END
C*****
*
SUBROUTINE FLOWOUT
PARAMETER (NNP=3500,NEL=7000,IB=75,NBS=200)
C**** IMPLICIT REAL*8(A-H,O-Z)
COMMON /BLOCKA/ NUMNP,X(NNP),Y(NNP),NUMEL,NI(NEL),NJ(NEL),
1NK(NEL),TITLE(20),IBAND,IFLAG(5),TOL,RELAX
COMMON /BLOCKB/ NTIM,NPMP,PINT,TIMX,TINIT,TPDAY,SUMT,
1TDEL,TIMY
COMMON /BLOCKC/NCODNP,NODEID(NNP),TRANS(NNP),HYDK1(NNP),THCK(NNP),
1REC(NNP),SC(NNP),S,HEAD(NNP),HDI(NNP)
COMMON /BLOCKF/QINRCH,QOUTRCH,QINREC,QOUTREC,QINCHN,QOUTCHN,
1QINLEK,QOUTLEK,QSTOR,QINGHB,QOUTGHB,QINDR,QOUTDR
COMMON /BLOCKG/ NUMBS,NGHB(NBS,2),GHBCOND(NBS),GHBHEAD(NBS),
1SLENGTH(NBS),QGHB(NBS),QBSNODE(NNP),QDR(NNP),DRCOND(NNP),

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2DRELEV(NNP)
COMMON /BLOCKH/ PRINTIT
DIMENSION ND(5),DRWDN(5)
CHARACTER*1 PRINTIT
C *****
C THIS SUBROUTINE PRINTS THE MAJOR OUTPUT FROM THE MODEL.
C IT PRINTS A HEAD MAP, DRAWDOWN MAP, CUMULATIVE MASS BALANCE,
C FLOW BY NODE ID AND FLOW FROM CONSTANT HEAD NODES.
C *****
C
C .....PRINT HEAD VALUES -- FT
WRITE (7,100)
100 FORMAT (1H1,4X,23HHEAD DISTRIBUTION -- FT/5X,23H-----
1-----)
IF (S.EQ.0.) GO TO 130
WRITE (7,110) SUMT
110 FORMAT (1H0,4X,13HTIME(DAYS) = ,F10.3)
WRITE (7,120) TIMY
120 FORMAT (5X,13HTIME(YEARS) = ,F10.5)
GO TO 150
130 WRITE (7,140)
140 FORMAT (1H0,4X,21HSTEADY STATE SOLUTION)
150 WRITE (7,160)
160 FORMAT (///1H ,9X,4HNODE,10X,4HHEAD,12X,4HNODE,10X,4HHEAD
1 )
WRITE (7,170) (NP,HEAD(NP),NP = 1,NUMNP)
170 FORMAT (2(10X,I5,5X,F12.3))
C
C .....PRINT DRAWDOWN VALUES -- FT
WRITE (7,180)
180 FORMAT (1H1,4X,27HDRAWDOWN DISTRIBUTION -- FT/5X,27H-----
1-----)
IF (S.EQ.0.) GO TO 190
WRITE (7,110) SUMT
WRITE (7,120) TIMY
GO TO 200
190 WRITE (7,140)
200 WRITE (7,210)
210 FORMAT (///1H ,9X,4HNODE,9X,8HDRAWDOWN,9X,4HNODE,9X,8HDRAWDOWN
1)
IR = 0
KR = 1
KC = 2
220 DO 230 NP = KR,KC
IR = IR + 1
ND(IR) = NP
230 DRWDN(IR) = HDI(NP) - HEAD(NP)
WRITE (7,240) (ND(I),DRWDN(I),I = 1,IR)
240 FORMAT (2(10X,I5,5X,F12.3))
IF (KC.EQ.NUMNP) GO TO 250
IR = 0
KR = KC + 1
KC = KC + 2
IF (KC.GT.NUMNP) KC = NUMNP
GO TO 220
C
C .....PRINT CUMULATIVE WATER BALANCE -- GALLONS
250 WRITE (7,260)
260 FORMAT (///1H1,4X,36HCUMULATIVE WATER BALANCE -- GALLONS/5X,31H--
1-----)
WRITE (7,110) SUMT
WRITE (7,120) TIMY
CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
QINRCH=QINRCH*7.48048
QOUTRCH=QOUTRCH*7.48048

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QINREC = QINREC*7.48048
QOUTREC = QOUTREC*7.48048
QINDR = QINDR*7.48048
QOUTDR = QOUTDR*7.48048
QINGHB = QINGHB*7.48048
QOUTGHB = QOUTGHB*7.48048
QINLEK = QINLEK*7.48048
QOUTLEK = QOUTLEK*7.48048
QINCHN = QINCHN*7.48048
QOUTCHN = QOUTCHN*7.48048
CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
WRITE (7,270) QINRCH,QOUTRCH
270 FORMAT (//,15X,38HQINRCH (RECHARGE-DISTRIBUTED)      =,F15.3/,1
15X,38HQOUTRCH (DISCHARGE-DISTRIBUTED)      =,F15.3)
WRITE (7,280) QINREC,QOUTREC
280 FORMAT (//,15X,38HQINREC (RECHARGE-POINT)           =,F15.3/,15
1X,38HQOUTREC (DISCHARGE-POINT)           =,F15.3)
WRITE (7,285) QINDR,QOUTDR
285 FORMAT (//,15X,38HQINDR (RECHARGE-RIVER)            =,F15.3/,15
1X,38HQOUTDR (DISCHARGE-DRAIN/RIVER)      =,F15.3)
WRITE (7,287) QINGHB,QOUTGHB
287 FORMAT (//,15X,38HQINGHB (HEAD-DEP. INFLOW)         =,F15.3/,15
1X,38HQOUTGHB (HEAD-DEP. OUTFLOW)         =,F15.3)
WRITE (7,290) QINLEK,QOUTLEK
290 FORMAT (//,15X,38HQINLEK (RECHARGE-LEAKAGE)         =,F15.3/,15
1X,38HQOUTLEK (DISCHARGE-LEAKAGE)         =,F15.3)
WRITE (7,310) QINCHN,QOUTCHN
310 FORMAT (//,15X,38HQINCHN (RECHARGE-CONST HEAD NODES) =,F15.3/,15
1X,38HQOUTCHN (DISCHARGE-CONST HEAD NODES) =,F15.3)
C
QIN = QINRCH + QINREC + QINLEK + QINCHN + QINGHB + QINDR
QOUT = QOUTRCH + QOUTREC + QOUTLEK + QOUTCHN + QOUTGHB + QOUTDR
WRITE (7,320) QIN,QOUT
320 FORMAT (56X,12H-----/,40X,13HTOTAL QIN =,F15.3/,40X,13HTO
1TAL QOUT =,F15.3)
QSTOR = QSTOR*7.48048
WRITE (7,330) QSTOR
330 FORMAT (//,15X,38HQSTOR (WATER RELEASED FROM STORAGE) =,F15.3)
C
C .....CALCULATE & PRINT MASS BALANCE RESIDUAL & ERROR AS A PER CENT
QRESID = QIN + QOUT - QSTOR
QRESID = ABS(QRESID)
WRITE (7,340) QRESID
340 FORMAT (//,25X,28HMASS BALANCE RESIDUAL      =,F15.3)
QERRIN = 0.
IF (QIN.NE.0.0) QERRIN = ABS(QRESID)/( - QIN) * 100.
QERROUT = 0.
IF (QOUT.NE.0.0) QERROUT = ABS(QRESID)/QOUT * 100.
QERRSTR = 0.
IF (QSTOR.NE.0.0) QERRSTR = ABS(QRESID)/ABS(QSTOR) * 100.
WRITE (7,350) QERRIN,QERROUT,QERRSTR
350 FORMAT (25X,28HERROR AS PERCENT OF QIN      =,F15.3/,25X,28HERROR AS
1 PERCENT OF QOUT =,F15.3/,25X,28HERROR AS PERCENT OF QSTOR =,F1
25.3)
CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
QINRCH = QINRCH/7.48048
QOUTRCH = QOUTRCH/7.48048
QINREC = QINREC/7.48048
QOUTREC = QOUTREC/7.48048
QINDR = QINDR/7.48048
QOUTDR = QOUTDR/7.48048
QINGHB = QINGHB/7.48048
QOUTGHB = QOUTGHB/7.48048
QINLEK = QINLEK/7.48048
QOUTLEK = QOUTLEK/7.48048
QINCHN = QINCHN/7.48048

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      QOUTCHN=QOUTCHN/7.48048
      QSTOR=QSTOR/7.48048
      CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
C
C   ....PRINT FLOW BY NODE ID -- GPM
      WRITE (7,360)
      360 FORMAT (///1H0,4X,23HFLOW BY NODE ID -- GPM/3X,28H-----
1-----)
      DO 400 NC = 1,NCODNP
        QINNID = 0.
        QOUTNID = 0.
        DO 380 NP = 1,NUMNP
          IF (NODEID(NP).NE.NC) GO TO 380
          IF (REC(NP).LE.O.) GO TO 370
          QOUTNID = QOUTNID + REC(NP) / 86400.
          GO TO 380
        370   QINNID = QINNID + REC(NP) / 86400.
      380   CONTINUE
          IF (QINNID.EQ.0.0.AND.QOUTNID.EQ.0.0) GO TO 400
      CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
          QINNID=QINNID*448.8288
          QOUTNID=QOUTNID*448.8288
      CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
          WRITE (7,390) NC,QINNID,NC,QOUTNID
      390 FORMAT (/5X,5HQIN (,I5,2H)=,5X,F12.5/5X,5HQOUT(,I5,2H)=,5X,F12.5)
      CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
          QINNID=QINNID/448.8288
          QOUTNID=QOUTNID/448.8288
      CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
      400 CONTINUE
C
C   ....PRINT FLOW BY NODE ID FOR DRAINS AND RIVERS
      DO 420 NC = 1,NCODNP
        QINNID = 0.
        QOUTNID = 0.
        DO 410 NP = 1,NUMNP
          IF (NODEID(NP).NE.NC) GO TO 410
          IF (DRCOND(NP).EQ.0) GO TO 410
          IF (QDR(NP).LE.O.) GO TO 405
          QOUTNID = QOUTNID + QDR(NP) / 86400.
          GO TO 410
        405   QINNID = QINNID + QDR(NP) / 86400.
      410   CONTINUE
          IF (QINNID.EQ.0.0.AND.QOUTNID.EQ.0.0) GO TO 420
      CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
          QINNID=QINNID*448.8288
          QOUTNID=QOUTNID*448.8288
      CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
          WRITE (7,415) NC,QINNID,NC,QOUTNID
      415 FORMAT (/5X,5HQIN (,I5,2H)=,5X,F12.5,' (RIVER NODE)'/
+5X,5HQOUT(,I5,2H)=,5X,F12.5,' (RIVER/DRAIN NODE)')
      CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
          QINNID=QINNID/448.8288
          QOUTNID=QOUTNID/448.8288
      CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
      420 CONTINUE
C
C   ....PRINT FLOW BY BOUNDARY SEGMENTS
      IF (NUMBS.GT. 0) THEN
        WRITE(7,430)
      430   FORMAT(//1H0,4X,'FLOW FROM GHB SEGMENTS -- GPM'//,5X,
1   'POSITIVE IS OUTFLOW, NEGATIVE IS INFLOW')
        DO 440 NS = 1,NUMBS
          QGH(NS) = QGH(NS)/86400.
      CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC

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      QGHB(NS) = QGHB(NS)*448.8288
CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
      WRITE(7,435)NS,QGHB(NS)
435   FORMAT(5X, 5H$IDE(,I5,2H) = ,5X,F12.5)
CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
      QGHB(NS) = QGHB(NS)/448.8288
CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
      QGHB(NS) = QGHB(NS)*86400.
440   CONTINUE
445   END IF
C
C   .....PRINT FLOW FROM CONSTANT HEAD NODES -- GPM
      WRITE (7,450)
450   FORMAT (///1H0,4X,42HFLOW FROM CONSTANT HEAD NODES -- GPM  /,5
1X,31HPOSITIVE IS DISCHARGE (PUMPAGE)/,5X,32HNEGATIVE IS RECHARGE (
2INJECTION))
      DO 460 NP = 1,NUMNP
      IF (NODEID(NP).EQ.0.OR.NODEID(NP).GT.10) GO TO 460
      REC(NP) = REC(NP) / 86400.
CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
      REC(NP) = REC(NP)*448.8288
CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
      WRITE (7,455) NP,REC(NP).
CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
      REC(NP) = REC(NP)/448.8288
CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
      REC(NP) = REC(NP) * 86400.
455   FORMAT (5X,5HNODE(,I5,2H) = ,5X,F12.5)
460   CONTINUE
C
C   .....WRITE HEADS FOR PLOTTING
      WRITE(8,480)SUMT
480   FORMAT (' HEAD SOLUTION -- TIME = ',F10.5,' DAYS.')
      WRITE (8,485)(NP,HEAD(NP),NP=1,NUMNP)
485   FORMAT (5(I5,F10.2))
C
C   .....WRITE DRAWDOWNS FOR PLOTTING
500   WRITE (8,510) SUMT
510   FORMAT (' DRAWDOWNS -- TIME = ',F10.5,' DAYS.')
      IR = 0
      KR = 1
      KC = 5
520   DO 530 NP = KR,KC
      IR = IR + 1
      ND(IR) = NP
530   DRWDN(IR) = HDI(NP) - HEAD(NP)
      WRITE (8,540) (ND(I),DRWDN(I),I = 1,IR)
540   FORMAT (5(I5,F10.2))
      IF (KC.EQ.NUMNP) GO TO 1000
      IR = 0
      KR = KC + 1
      KC = KC + 5
      IF (KC.GT.NUMNP) KC = NUMNP
      GO TO 520
C   *****
1000  CONTINUE
      CALL LAYER
999   RETURN
      END
      SUBROUTINE TRANADJ
C   *****
C   THIS SUBROUTINE ADJUSTS THE TRANSMISSIVITY FOR THE MODIFIED
C   ONE LAYER MODEL AT THE ROCKY MOUNTAIN ARSENAL.
C   *****
      PARAMETER (NNP = 3500,NEL = 7000,IB = 75,NBS = 200)
C*****IMPLICIT REAL*8(A-H,O-Z)

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COMMON /BLOCKA/ NUMNP,X(NNP),Y(NNP),NUMEL,NI(NEL),NJ(NEL),
1NK(NEL),TITLE(20),IBAND,IFLAG(5),TOL,RELAX
COMMON /BLOCKC/NCODNP,NODEID(NNP),TRANS(NNP),HYDK1(NNP),THCK(NNP),
1REC(NNP),SC(NNP),S,HEAD(NNP),HDI(NNP)
COMMON /BLOCKD/ NCODEL,IDELEM(NEL),RECH(NEL),VPRM(NEL),AREA(NEL),
+ HDLEAK(NEL)
COMMON /BLOCKT/GS(NNP),ZBED(NNP),ZBASE(NNP),HYDK2(NNP)
C *****
C
C ADJUST TRANSMISSIVITY FOR MODIFIED ONE LAYER MODEL
C
IF(IFLAG(1) .EQ. 3)THEN
DO 100 I = 1,NUMNP
IF(HEAD(I) .GT. GS(I))THEN
TRANS(I) = HYDK1(I) * (GS(I)-ZBED(I)) + HYDK2(I) * (ZBED(I)-ZBASE(I))
ELSEIF(HEAD(I) .LE. GS(I) .AND. HEAD(I) .GT. ZBED(I))THEN
TRANS(I) = HYDK1(I) * (HEAD(I)-ZBED(I)) + HYDK2(I) * (ZBED(I)-ZBASE(I))
ELSEIF(HEAD(I) .LE. ZBED(I) .AND. HEAD(I) .GT. ZBASE(I))THEN
TRANS(I) = HYDK2(I) * (HEAD(I)-ZBASE(I))
ELSE
TRANS(I) = 0.
ENDIF
100 CONTINUE
C
C SET MINIMUM TRANSMISSIVITY
C
DO 150 I = 1,NUMNP
TMIN = HYDK2(I) * 1.
IF(TRANS(I) .LT. TMIN)TRANS(I) = TMIN
150 CONTINUE
ENDIF
C
C ADJUST TRANSMISSIVITY FOR UNCONFINED AQUIFER
C
IF(IFLAG(1) .EQ. 1)THEN
DO 200 I = 1,NUMNP
IF(HEAD(I) .GT. GS(I))THEN
TRANS(I) = HYDK1(I) * (GS(I)-ZBED(I))
ELSEIF(HEAD(I) .LE. GS(I) .AND. HEAD(I) .GT. ZBED(I))THEN
TRANS(I) = HYDK1(I) * (HEAD(I)-ZBED(I))
ELSE
TRANS(I) = 0.
ENDIF
200 CONTINUE
C
C SET MINIMUM TRANSMISSIVITY
C
DO 250 I = 1,NUMNP
TMIN = HYDK1(I) * 1.
IF(TRANS(I) .LT. TMIN)TRANS(I) = TMIN
250 CONTINUE
ENDIF
999 RETURN
END
SUBROUTINE LAYER
C *****
C THIS SUBROUTINE IDENTIFIES WHICH AQUIFER THE WATER LEVEL AT NODE I
C IS IN (BEDROCK OR ALLUVIUM).
C *****
PARAMETER (NNP = 3500,NEL = 7000,IB = 75,NBS = 200)
C**** IMPLICIT REAL*8(A-H,O-Z)
COMMON /BLOCKA/ NUMNP,X(NNP),Y(NNP),NUMEL,NI(NEL),NJ(NEL),
1NK(NEL),TITLE(20),IBAND,IFLAG(5),TOL,RELAX
COMMON /BLOCKC/NCODNP,NODEID(NNP),TRANS(NNP),HYDK1(NNP),THCK(NNP),
1REC(NNP),SC(NNP),S,HEAD(NNP),HDI(NNP)

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Appendix B

Steady-State Calibration Input File

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WES MESH
NTIM, NPMP, PINT, PRINTIT, TIMX, TINIT (2I5,F10.0,4X,A1,2F10.0)
50050 1 50000.00 Y 1.500 3600.000 5.0
SIMULATION OPTION IFLAG1(I1)-(0=CONFINED,1=UNCONFINED&3=M ODIIFIED ONE LAYER MODEL)
3
SIMULATION OPTION IFLAG2,TOL,RELAX (I1,2F10.0) - (0=GAUSS & 1=PISOR)
0 0.000000 0.000000
SIMULATION OPTION IFLAG3 (I1) - (0=GWFLOW DATA & 1=GWTRAN DATA)
0
NUMNP, NUMEL, IBAND (3I5)
3359 6466 69
NODAL COORDINATES: FCTR (F10.0); NODE, X,Y (3(I5,2F10.0))
400.000
1 0.000 17.540 2 0.432 17.169 3 0.800 18.411
4 0.861 16.801 5 1.239 18.038 6 1.550 19.250
7 1.287 16.435 8 1.676 17.666 9 1.991 18.875
10 2.250 20.056 11 1.709 16.071 12 1.700 16.737
13 2.432 18.500 14 2.689 19.681 15 2.900 20.830
16 3.333 20.455 17 2.129 15.710 18 2.546 16.924
19 2.874 18.124 20 3.130 19.303 21 3.769 20.076
22 3.385 21.360 23 3.831 20.961 24 2.545 15.351
25 2.979 16.556 26 3.315 17.749 27 3.648 18.770
28 4.209 19.695 29 4.278 20.560 30 3.841 21.860
31 4.299 21.437 32 2.958 14.995 33 3.410 16.188
34 3.757 17.373 35 4.018 18.544 36 4.653 19.311
37 4.729 20.157 38 4.759 21.014 39 4.267 22.330
40 4.739 21.885 41 3.367 14.641 42 3.840 15.821
43 4.199 16.997 44 4.464 18.163 45 5.100 18.924
46 5.181 19.752 47 5.220 20.591 48 5.212 21.441
49 4.663 22.771 50 5.150 22.304 51 3.774 14.290
52 4.268 15.455 53 4.485 16.708 54 4.913 17.779
55 5.551 18.535 56 5.637 19.346 57 5.683 20.166
58 5.684 20.997 59 5.636 21.839 60 5.030 23.182
61 5.253 22.980 62 4.177 13.941 63 4.695 15.091
64 5.084 16.244 65 5.364 17.395 66 6.006 18.142
67 6.094 18.938 68 6.147 19.741 69 6.157 20.552
70 5.963 21.392 71 6.031 22.208 72 5.367 23.563
73 5.884 23.054 74 4.577 13.594 75 5.120 14.727
76 5.527 15.868 77 5.816 17.008 78 6.464 17.747
79 6.555 18.528 80 6.612 19.315 81 6.630 20.109
82 6.604 20.911 83 6.528 21.724 84 6.398 22.549
85 5.674 23.915 86 6.208 23.386 87 4.974 13.250
88 5.544 14.365 89 5.970 15.491 90 6.271 16.620
91 6.926 17.349 92 7.017 18.116 93 7.305 19.052
94 7.103 19.665 95 7.086 20.450 96 7.023 21.243
97 6.908 22.046 98 6.736 22.861 99 5.952 24.237
100 6.502 23.689 101 5.368 12.908 102 5.966 14.004
103 6.413 15.114 104 6.727 16.231 105 6.200 24.530
106 6.335 24.677 107 6.468 24.824 108 6.601 24.970
109 6.733 25.115 110 6.864 25.259 111 6.993 25.403
112 7.122 25.546 113 7.251 25.689 114 7.378 25.831
115 7.504 25.972 116 7.629 26.112 117 7.754 26.252
118 7.877 26.391 119 8.000 26.530 120 8.122 26.668
121 8.242 26.805 122 8.362 26.942 123 8.481 27.078

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124	8.599	27.213	125	8.716	27.347	126	8.833	27.481
127	8.948	27.614	128	9.062	27.747	129	9.176	27.879
130	9.288	28.010	131	9.400	28.141	132	9.510	28.271
133	9.620	28.400	134	10.123	28.982	135	10.618	29.553
136	11.104	30.112	137	11.583	30.660	138	12.055	31.197
139	12.518	31.722	140	12.973	32.236	141	13.420	32.739
142	13.860	33.230	143	7.391	16.948	144	7.482	17.702
145	7.545	18.460	146	7.575	19.222	147	7.567	19.989
148	7.515	20.764	149	7.415	21.547	150	7.260	22.341
151	7.046	23.145	152	6.767	23.962	153	5.758	12.569
154	6.387	13.644	155	6.857	14.736	156	7.186	15.840
157	6.548	24.520	158	7.008	24.296	159	7.127	24.461
160	6.855	24.945	161	7.363	24.789	162	7.479	24.951
163	7.265	25.413	164	7.710	25.273	165	7.825	25.432
166	7.678	25.883	167	8.051	25.748	168	8.162	25.905
169	8.273	26.060	170	8.090	26.373	171	8.493	26.369
172	8.602	26.521	173	8.443	26.870	174	8.816	26.824
175	8.923	26.973	176	9.028	27.122	177	9.132	27.270
178	9.236	27.417	179	9.203	27.718	180	9.441	27.707
181	9.543	27.851	182	9.643	27.994	183	9.743	28.136
184	9.842	28.277	185	10.336	28.872	186	10.822	29.456
187	11.300	30.029	188	11.770	30.590	189	12.233	31.141
190	12.688	31.680	191	13.135	32.208	192	13.574	32.724
193	14.006	33.230	194	7.861	16.544	195	7.950	17.287
196	8.014	18.031	197	8.048	18.778	198	8.047	19.530
199	8.006	20.287	200	7.918	21.051	201	7.779	21.824
202	7.584	22.607	203	7.327	23.400	204	7.435	23.587
205	6.146	12.232	206	6.806	13.285	207	7.300	14.359
208	7.646	15.448	209	7.541	23.773	210	7.647	23.958
211	7.752	24.141	212	7.856	24.323	213	7.960	24.504
214	8.063	24.683	215	8.165	24.861	216	8.267	25.038
217	8.368	25.214	218	8.468	25.388	219	8.567	25.561
220	8.666	25.732	221	8.764	25.903	222	8.862	26.072
223	8.958	26.240	224	9.054	26.406	225	9.150	26.572
226	9.244	26.736	227	9.338	26.898	228	9.431	27.060
229	9.524	27.220	230	9.616	27.379	231	9.707	27.536
232	9.797	27.693	233	9.887	27.847	234	9.976	28.001
235	10.064	28.154	236	10.549	28.762	237	11.027	29.359
238	11.497	29.945	239	11.958	30.520	240	12.413	31.084
241	12.859	31.637	242	13.298	32.179	243	13.729	32.710
244	14.152	33.230	245	8.334	16.137	246	8.420	16.869
247	8.484	17.602	248	8.521	18.335	249	8.526	19.072
250	8.494	19.813	251	8.418	20.559	252	8.294	21.312
253	8.117	22.074	254	7.881	22.845	255	7.974	23.052
256	7.945	23.494	257	6.530	11.897	258	7.224	12.927
259	8.115	14.355	260	8.108	15.054	261	8.160	23.460
262	8.253	23.662	263	8.344	23.863	264	8.435	24.061
265	8.526	24.258	266	8.615	24.454	267	8.705	24.648
268	8.793	24.840	269	8.881	25.031	270	8.969	25.220
271	9.055	25.408	272	9.142	25.594	273	9.227	25.778
274	9.313	25.961	275	9.397	26.142	276	9.481	26.322
277	9.564	26.500	278	9.647	26.676	279	9.729	26.851
280	9.811	27.024	281	9.892	27.196	282	9.972	27.366
283	10.052	27.534	284	10.131	27.701	285	10.210	27.866
286	10.490	28.442	287	10.764	28.651	288	11.233	29.261
289	11.694	29.861	290	12.147	30.450	291	12.593	31.027
292	13.031	31.594	293	13.462	32.150	294	13.884	32.696
295	14.300	33.230	296	8.810	15.728	297	8.892	16.450
298	8.955	17.171	299	8.994	17.892	300	9.004	18.615
301	8.979	19.340	302	8.914	20.070	303	8.804	20.804
304	8.643	21.546	305	8.426	22.296	306	8.507	22.522
307	8.588	22.746	308	8.668	22.968	309	6.911	11.565
310	7.641	12.570	311	8.189	13.603	312	8.572	14.658
313	8.747	23.189	314	8.826	23.407	315	8.905	23.624
316	8.983	23.838	317	9.061	24.051	318	9.138	24.262
319	9.214	24.471	320	9.291	24.678	321	9.366	24.883
322	9.442	25.086	323	9.516	25.288	324	9.591	25.487
325	9.664	25.685	326	9.738	25.880	327	9.811	26.074
328	9.883	26.266	329	9.955	26.455	330	10.026	26.643
331	10.097	26.830	332	10.168	27.014	333	10.238	27.196
334	10.307	27.376	335	10.376	27.555	336	10.445	27.731
337	10.513	27.906	338	10.980	28.540	339	11.440	29.164
340	11.893	29.777	341	12.337	30.379	342	12.775	30.971
343	13.204	31.551	344	13.626	32.122	345	14.041	32.681
346	14.448	33.230	347	9.290	15.316	348	9.367	16.029
349	9.428	16.740	350	9.468	17.450	351	9.342	18.400
352	9.462	18.870	353	9.407	19.583	354	9.309	20.301
355	9.164	21.024	356	8.965	21.753	357	9.034	21.998
358	9.101	22.241	359	9.169	22.482	360	9.236	22.721
361	7.288	11.235	362	8.056	12.214	363	8.633	13.225
364	9.039	14.261	365	9.303	22.957	366	9.369	23.191
367	9.435	23.423	368	9.501	23.653	369	9.567	23.880

370	9.631	24.106	371	9.696	24.329	372	9.760	24.549
373	9.824	24.768	374	9.888	24.984	375	9.951	25.199
376	10.014	25.411	377	10.076	25.620	378	10.138	25.828
379	10.200	26.033	380	10.257	26.267	381	10.322	26.437
382	10.383	26.636	383	10.443	26.833	384	10.503	27.027
385	10.562	27.219	386	10.622	27.409	387	10.680	27.596
388	10.739	27.782	389	11.197	28.429	390	11.649	29.066
391	12.092	29.692	392	12.528	30.308	393	12.957	30.914
394	13.378	31.508	395	13.792	32.093	396	14.198	32.667
397	14.597	33.230	398	9.774	14.900	399	9.752	15.802
400	9.902	16.308	401	9.941	17.007	402	9.956	17.705
403	9.943	18.402	404	9.896	19.101	405	9.809	19.802
406	9.678	20.506	407	9.497	21.217	408	9.553	21.481
409	9.609	21.742	410	9.664	22.001	411	9.719	22.258
412	9.774	22.512	413	7.663	10.908	414	8.469	11.860
415	9.078	12.847	416	9.507	13.863	417	9.828	22.763
418	9.883	23.012	419	9.937	23.259	420	9.991	23.503
421	10.044	23.744	422	10.098	23.983	423	10.151	24.219
424	10.204	24.453	425	10.256	24.684	426	10.309	24.913
427	10.361	25.139	428	10.412	25.363	429	10.464	25.584
430	10.515	25.803	431	10.566	26.019	432	10.617	26.233
433	10.668	26.444	434	10.718	26.652	435	10.768	26.858
436	10.818	27.062	437	10.867	27.263	438	10.917	27.461
439	10.966	27.657	440	11.415	28.318	441	11.858	28.968
442	12.293	29.608	443	12.720	30.237	444	13.141	30.857
445	13.553	31.465	446	13.959	32.064	447	14.357	32.652
448	14.747	33.230	449	10.262	14.482	450	10.324	15.182
451	10.377	15.876	452	10.414	16.565	453	10.431	17.252
454	10.422	17.936	455	10.381	18.621	456	10.305	19.307
457	10.187	19.995	458	10.022	20.686	459	10.065	20.969
460	10.109	21.249	461	10.153	21.526	462	10.196	21.801
463	10.239	22.072	464	10.282	22.341	465	8.034	10.583
466	8.881	11.506	467	9.522	12.468	468	9.977	13.462
469	10.325	22.606	470	10.368	22.869	471	10.411	23.129
472	10.453	23.387	473	10.495	23.641	474	10.538	23.893
475	10.580	24.141	476	10.622	24.387	477	10.663	24.630
478	10.705	24.870	479	10.747	25.108	480	10.788	25.342
481	10.829	25.574	482	10.870	25.803	483	10.911	26.029
484	10.952	26.252	485	10.993	26.473	486	11.033	26.690
487	11.073	26.905	488	11.114	27.117	489	11.154	27.326
490	11.194	27.532	491	11.634	28.206	492	12.068	28.869
493	12.494	29.523	494	12.913	30.166	495	13.325	30.799
496	13.729	31.422	497	14.126	32.035	498	14.516	32.638
499	14.898	33.230	500	10.753	14.062	501	10.807	14.755
502	10.853	15.442	503	10.887	16.123	504	10.904	16.800
505	10.898	17.473	506	10.864	18.145	507	10.796	18.816
508	10.689	19.488	509	10.539	20.163	510	10.571	20.464
511	10.603	20.762	512	10.635	21.057	513	10.667	21.348
514	10.699	21.637	515	10.731	21.923	516	10.762	22.205
517	8.402	10.261	518	9.291	11.154	519	9.968	12.089
520	10.449	13.061	521	10.794	22.484	522	10.826	22.760
523	10.857	23.033	524	10.889	23.303	525	10.921	23.569
526	10.952	23.833	527	10.984	24.093	528	11.097	24.200
529	11.047	24.604	530	11.078	24.855	531	11.110	25.103
532	11.141	25.347	533	11.173	25.589	534	11.204	25.827
535	11.235	26.062	536	11.267	26.294	537	11.298	26.523
538	11.329	26.749	539	11.360	26.971	540	11.391	27.190
541	11.423	27.407	542	11.855	28.094	543	12.279	28.771
544	12.697	29.438	545	13.107	30.095	546	13.510	30.742
547	13.906	31.379	548	14.295	32.006	549	14.676	32.623
550	15.050	33.230	551	11.248	13.638	552	11.291	14.327
553	11.450	15.273	554	11.361	15.681	555	11.376	16.349
556	11.372	17.012	557	11.342	17.672	558	11.282	18.329
559	11.186	18.987	560	11.049	19.645	561	10.938	20.150
562	11.090	20.280	563	11.111	20.593	564	11.132	20.902
565	11.153	21.207	566	11.173	21.509	567	11.194	21.808
568	11.215	22.103	569	8.767	9.941	570	10.038	11.083
571	10.413	11.710	572	10.923	12.658	573	11.237	22.395
574	11.258	22.683	575	11.279	22.968	576	11.300	23.250
577	11.322	23.527	578	11.343	23.802	579	11.365	24.073
580	11.387	24.340	581	11.408	24.604	582	11.430	24.865
583	11.452	25.122	584	11.474	25.376	585	11.496	25.626
586	11.518	25.873	587	11.540	26.116	588	11.563	26.356
589	11.585	26.593	590	11.607	26.826	591	11.630	27.055
592	11.653	27.281	593	12.076	27.981	594	12.492	28.672
595	12.900	29.353	596	13.302	30.023	597	13.697	30.684
598	14.108	31.388	599	14.464	31.977	600	14.837	32.608
601	15.203	33.230	602	11.746	13.211	603	11.778	13.897
604	11.809	14.573	605	11.834	15.240	606	11.847	15.899
607	11.843	16.553	608	11.817	17.202	609	11.764	17.847
610	11.677	18.491	611	11.553	19.134	612	11.562	19.471
613	11.571	19.805	614	11.581	20.134	615	11.591	20.460

616	11.601	20.783	617	11.611	21.101	618	11.621	21.416
619	11.632	21.727	620	11.643	22.034	621	9.129	9.623
622	10.108	10.452	623	10.858	11.331	624	11.399	12.253
625	11.654	22.338	626	11.665	22.637	627	11.676	22.933
628	11.688	23.225	629	11.700	23.514	630	11.712	23.798
631	11.724	24.079	632	11.736	24.356	633	11.748	24.629
634	11.761	24.899	635	11.774	25.165	636	11.787	25.427
637	11.800	25.685	638	11.814	25.939	639	11.827	26.190
640	11.841	26.437	641	11.855	26.680	642	11.869	26.919
643	11.884	27.155	644	12.298	27.869	645	12.705	28.573
646	13.105	29.267	647	13.498	29.952	648	13.884	30.627
649	14.263	31.292	650	14.635	31.948	651	14.999	32.594
652	15.357	33.230	653	12.249	12.782	654	12.268	13.465
655	12.290	14.137	656	12.308	14.798	657	12.317	15.451
658	12.312	16.096	659	12.289	16.735	660	12.240	17.369
661	12.225	18.215	662	12.049	18.629	663	12.047	18.984
664	12.046	19.335	665	12.045	19.682	666	12.044	20.024
667	12.043	20.363	668	12.043	20.698	669	12.043	21.029
670	12.044	21.355	671	12.045	21.677	672	12.046	21.996
673	9.488	9.308	674	10.514	10.103	675	11.304	10.952
676	11.876	11.847	677	12.047	22.310	678	12.049	22.620
679	12.051	22.926	680	12.053	23.228	681	12.055	23.526
682	12.058	23.820	683	12.061	24.110	684	12.065	24.396
685	12.069	24.678	686	12.073	24.955	687	12.077	25.229
688	12.082	25.498	689	12.087	25.763	690	12.092	26.025
691	12.097	26.282	692	12.103	26.535	693	12.109	26.784
694	12.116	27.029	695	12.521	27.756	696	12.919	28.473
697	13.311	29.181	698	13.695	29.880	699	14.072	30.569
700	14.443	31.248	701	14.806	31.918	702	15.162	32.579
703	15.512	33.230	704	12.754	12.350	705	12.760	13.031
706	12.771	13.700	707	12.781	14.357	708	12.786	15.004
709	12.779	15.642	710	12.757	16.272	711	12.712	16.896
712	12.641	17.515	713	12.538	18.130	714	12.525	18.503
715	12.514	18.871	716	12.413	19.450	717	12.491	19.594
718	12.480	19.949	719	12.470	20.299	720	12.460	20.646
721	12.451	20.988	722	12.442	21.325	723	12.433	21.658
724	12.425	21.987	725	9.843	8.995	726	10.918	9.755
727	11.750	10.572	728	12.356	11.439	729	12.417	22.311
730	12.410	22.631	731	12.403	22.946	732	12.397	23.257
733	12.390	23.564	734	12.385	23.866	735	12.379	24.164
736	12.374	24.458	737	12.370	24.747	738	12.366	25.032
739	12.362	25.312	740	12.359	25.588	741	12.356	25.860
742	12.354	26.127	743	12.352	26.390	744	12.350	26.648
745	12.349	26.902	746	12.745	27.643	747	13.135	28.374
748	13.517	29.095	749	13.893	29.808	750	14.261	30.511
751	14.623	31.205	752	14.978	31.889	753	15.326	32.564
754	15.668	33.230	755	13.264	11.915	756	13.255	12.596
757	13.254	13.263	758	13.255	13.916	759	13.140	14.600
760	13.244	15.189	761	13.221	15.812	762	13.180	16.426
763	13.114	17.035	764	13.020	17.638	765	12.997	18.027
766	12.975	18.413	767	12.953	18.793	768	12.932	19.169
769	12.912	19.540	770	12.892	19.906	771	12.872	20.267
772	12.853	20.624	773	12.835	20.977	774	12.817	21.324
775	12.799	21.667	776	12.782	22.005	777	10.195	8.685
778	11.321	9.408	779	12.196	10.192	780	12.838	11.030
781	12.766	22.338	782	12.750	22.667	783	12.735	22.991
784	12.720	23.310	785	12.706	23.625	786	12.692	23.935
787	12.679	24.240	788	12.666	24.541	789	12.654	24.836
790	12.642	25.127	791	12.631	25.414	792	12.620	25.695
793	12.610	25.972	794	12.601	26.245	795	12.592	26.512
796	12.583	26.775	797	12.970	27.529	798	13.351	28.274
799	13.725	29.009	800	14.092	29.736	801	14.452	30.453
802	14.805	31.161	803	15.152	31.860	804	15.491	32.549
805	15.824	33.230	806	13.777	11.477	807	13.835	12.220
808	13.738	12.824	809	13.729	13.475	810	13.720	14.113
811	13.706	14.739	812	13.682	15.355	813	13.642	15.961
814	13.581	16.560	815	13.494	17.152	816	13.462	17.558
817	13.430	17.960	818	13.398	18.357	819	13.367	18.749
820	13.337	19.135	821	13.308	19.517	822	13.279	19.894
823	13.251	20.266	824	13.223	20.632	825	13.196	20.994
826	13.170	21.351	827	13.144	21.702	828	13.119	22.049
829	10.544	8.377	830	11.723	9.063	831	12.643	9.812
832	13.322	10.619	833	13.094	22.391	834	13.071	22.727
835	12.972	23.157	836	13.025	23.386	837	13.003	23.707
838	12.982	24.024	839	12.961	24.336	840	12.941	24.642
841	12.922	24.944	842	12.903	25.240	843	12.885	25.532
844	12.867	25.818	845	12.850	26.100	846	12.834	26.376
847	12.818	26.648	848	13.197	27.415	849	13.568	28.174
850	13.933	28.923	851	14.291	29.663	852	14.643	30.395
853	14.988	31.117	854	15.326	31.830	855	15.657	32.535
856	15.982	33.230	857	14.294	11.036	858	14.251	11.719
859	14.223	12.385	860	14.202	13.035	861	14.185	13.670

862	14.166	14.292	863	14.139	14.901	864	14.100	15.500
865	14.043	16.090	866	13.962	16.672	867	13.920	17.095
868	13.878	17.514	869	13.837	17.927	870	13.797	18.334
871	13.757	18.736	872	13.719	19.133	873	13.681	19.525
874	13.643	19.911	875	13.480	20.202	876	13.571	20.668
877	13.536	21.038	878	13.502	21.403	879	13.468	21.763
880	13.436	22.118	881	10.890	8.071	882	12.123	8.718
883	13.495	9.875	884	13.807	10.207	885	13.403	22.467
886	13.372	22.810	887	13.342	23.149	888	13.312	23.482
889	13.283	23.810	890	13.254	24.132	891	13.227	24.449
892	13.200	24.761	893	13.174	25.068	894	13.149	25.369
895	13.124	25.665	896	13.100	25.955	897	13.077	26.241
898	13.055	26.520	899	13.424	27.301	900	13.787	28.073
901	14.143	28.836	902	14.492	29.591	903	14.835	30.336
904	15.171	31.073	905	15.501	31.801	906	15.824	32.520
907	16.140	33.230	908	14.814	10.592	909	14.753	11.278
910	14.709	11.945	911	14.676	12.595	912	14.650	13.228
913	14.624	13.846	914	14.593	14.451	915	14.553	15.044
916	14.795	15.505	917	14.423	16.198	918	14.371	16.638
919	14.320	17.073	920	14.269	17.502	921	14.220	17.925
922	14.172	18.343	923	14.124	18.754	924	14.077	19.161
925	14.031	19.561	926	13.986	19.957	927	13.942	20.346
928	13.899	20.730	929	13.856	21.108	930	13.814	21.480
931	13.774	21.847	932	13.734	22.209	933	11.232	7.768
934	12.522	8.374	935	13.565	8.938	936	14.295	9.793
937	13.695	22.564	938	13.656	22.914	939	13.619	23.259
940	13.582	23.597	941	13.547	23.930	942	13.512	24.258
943	13.478	24.580	944	13.445	24.896	945	13.413	25.206
946	13.381	25.511	947	13.351	25.811	948	13.321	26.104
949	13.292	26.392	950	13.652	27.187	951	14.006	27.972
952	14.353	28.750	953	14.694	29.518	954	15.028	30.278
955	15.356	31.029	956	15.677	31.771	957	15.991	32.505
958	16.299	33.230	959	11.571	7.467	960	15.338	10.146
961	15.258	10.835	962	15.197	11.504	963	15.150	12.154
964	15.113	12.787	965	15.079	13.403	966	15.044	14.004
967	15.002	14.592	968	14.947	15.167	969	14.876	15.731
970	14.815	16.188	971	14.755	16.638	972	14.696	17.083
973	14.637	17.521	974	14.580	17.954	975	14.524	18.380
976	14.523	18.750	977	14.414	19.216	978	14.361	19.625
979	14.309	20.028	980	14.257	20.425	981	14.207	20.816
982	14.157	21.201	983	14.109	21.580	984	14.061	21.953
985	14.014	22.320	986	12.919	8.032	987	13.984	8.671
988	14.784	9.378	989	13.969	22.682	990	13.924	23.037
991	13.880	23.387	992	13.838	23.730	993	13.796	24.068
994	13.755	24.399	995	13.715	24.725	996	13.676	25.045
997	13.638	25.359	998	13.601	25.666	999	13.565	25.968
1000	13.530	26.264	1001	13.882	27.072	1002	14.227	27.872
1003	14.565	28.662	1004	14.897	29.445	1005	15.222	30.219
1006	15.541	30.984	1007	15.854	31.741	1008	16.160	32.490
1009	16.460	33.230	1010	11.908	7.169	1011	13.314	7.690
1012	15.866	9.697	1013	15.765	10.391	1014	15.686	11.063
1015	15.624	11.715	1016	15.575	12.347	1017	15.532	12.962
1018	15.490	13.560	1019	15.445	14.144	1020	15.391	14.713
1021	15.322	15.270	1022	15.252	15.743	1023	15.183	16.209
1024	15.183	16.955	1025	15.049	17.123	1026	14.983	17.570
1027	14.919	18.011	1028	14.855	18.446	1029	14.793	18.875
1030	14.731	19.297	1031	14.671	19.714	1032	14.612	20.123
1033	14.554	20.527	1034	14.497	20.925	1035	14.441	21.316
1036	14.386	21.701	1037	14.332	22.079	1038	14.279	22.452
1039	14.431	8.290	1040	15.276	8.961	1041	14.227	22.818
1042	14.220	23.155	1043	14.127	23.531	1044	14.079	23.879
1045	14.032	24.220	1046	13.985	24.555	1047	13.940	24.884
1048	13.896	25.206	1049	13.853	25.522	1050	13.811	25.832
1051	13.932	26.433	1052	14.112	26.957	1053	14.448	27.770
1054	14.778	28.575	1055	15.101	29.372	1056	15.417	30.160
1057	15.728	30.940	1058	16.032	31.712	1059	16.329	32.475
1060	16.621	33.230	1061	12.240	6.873	1062	13.708	7.350
1063	14.879	7.909	1064	16.398	9.244	1065	16.274	9.944
1066	16.176	10.620	1067	16.098	11.275	1068	16.035	11.909
1069	15.982	12.523	1070	15.934	13.120	1071	15.884	13.700
1072	15.829	14.265	1073	15.761	14.816	1074	15.683	15.304
1075	15.605	15.786	1076	15.529	16.261	1077	15.454	16.730
1078	15.380	17.192	1079	15.308	17.647	1080	15.236	18.096
1081	15.166	18.538	1082	15.097	18.974	1083	15.029	19.403
1084	14.963	19.826	1085	14.897	20.242	1086	14.833	20.651
1087	14.770	21.054	1088	14.708	21.451	1089	14.647	21.841
1090	14.587	22.224	1091	14.529	22.601	1092	15.769	8.542
1093	14.472	22.971	1094	14.416	23.334	1095	14.361	23.691
1096	14.307	24.042	1097	14.255	24.386	1098	14.204	24.723
1099	14.153	25.054	1100	14.105	25.378	1101	14.057	25.696
1102	14.010	26.007	1103	14.344	26.842	1104	14.670	27.669
1105	14.991	28.488	1106	15.305	29.299	1107	15.613	30.101

1108	15.915	30.896	1109	16.211	31.682	1110	16.500	32.460
1111	16.783	33.230	1112	12.570	6.580	1113	14.101	7.011
1114	15.326	7.527	1115	16.264	8.123	1116	12.897	6.289
1117	13.220	6.000	1118	16.933	8.789	1119	16.786	9.496
1120	16.667	10.177	1121	16.572	10.835	1122	16.495	11.471
1123	16.431	12.087	1124	16.373	12.682	1125	16.318	13.260
1126	16.260	13.822	1127	16.193	14.368	1128	16.107	14.871
1129	16.021	15.368	1130	15.937	15.859	1131	15.854	16.342
1132	15.772	16.818	1133	15.692	17.288	1134	15.613	17.750
1135	15.535	18.206	1136	15.458	18.655	1137	15.383	19.097
1138	15.309	19.532	1139	15.237	19.960	1140	15.166	20.382
1141	15.096	20.796	1142	15.027	21.204	1143	14.959	21.605
1144	14.893	21.998	1145	14.829	22.385	1146	14.765	22.766
1147	14.703	23.139	1148	14.642	23.505	1149	14.582	23.865
1150	14.524	24.217	1151	14.467	24.563	1152	14.411	24.902
1153	14.357	25.234	1154	14.304	25.559	1155	14.252	25.878
1156	14.576	26.726	1157	14.894	27.567	1158	15.206	28.400
1159	15.511	29.225	1160	15.811	30.042	1161	16.104	30.851
1162	16.391	31.652	1163	16.671	32.445	1164	16.946	33.230
1165	14.492	6.673	1166	15.774	7.146	1167	16.762	7.701
1168	17.471	8.332	1169	14.882	6.336	1170	15.270	6.000
1171	17.300	9.046	1172	17.160	9.733	1173	17.046	10.396
1174	16.954	11.035	1175	16.820	11.773	1176	16.810	12.248
1177	16.748	12.825	1178	16.686	13.384	1179	16.618	13.926
1180	16.670	14.417	1181	16.430	14.957	1182	16.338	15.462
1183	16.247	15.959	1184	16.158	16.450	1185	16.070	16.933
1186	15.984	17.409	1187	15.899	17.878	1188	15.815	18.340
1189	15.733	18.794	1190	15.652	19.242	1191	15.573	19.682
1192	15.495	20.115	1193	15.418	20.541	1194	15.343	20.959
1195	15.270	21.371	1196	15.197	21.775	1197	15.126	22.172
1198	15.057	22.562	1199	14.989	22.945	1200	14.922	23.320
1201	14.857	23.689	1202	14.793	24.050	1203	14.730	24.404
1204	14.669	24.751	1205	14.610	25.090	1206	14.551	25.423
1207	14.494	25.748	1208	14.809	26.611	1209	15.118	27.465
1210	15.421	28.312	1211	15.718	29.151	1212	16.009	29.983
1213	16.293	30.806	1214	16.571	31.622	1215	16.844	32.430
1216	17.110	33.230	1217	16.223	6.764	1218	17.261	7.278
1219	18.014	7.871	1220	17.817	8.594	1221	16.671	6.382
1222	17.120	6.000	1223	17.654	9.288	1224	17.521	9.957
1225	17.411	10.600	1226	17.320	11.220	1227	17.242	11.818
1228	17.173	12.394	1229	17.106	12.951	1230	17.036	13.490
1231	16.934	14.024	1232	16.833	14.551	1233	16.733	15.070
1234	16.635	15.582	1235	16.538	16.087	1236	16.443	16.583
1237	16.350	17.073	1238	16.258	17.555	1239	16.168	18.029
1240	16.079	18.496	1241	15.991	18.955	1242	15.757	19.500
1243	15.821	19.852	1244	15.738	20.288	1245	15.657	20.718
1246	15.577	21.140	1247	15.499	21.554	1248	15.422	21.961
1249	15.347	22.361	1250	15.273	22.752	1251	15.201	23.137
1252	15.130	23.514	1253	15.061	23.883	1254	14.993	24.245
1255	14.927	24.600	1256	14.863	24.947	1257	14.800	25.286
1258	14.738	25.618	1259	15.044	26.494	1260	15.344	27.363
1261	15.638	28.224	1262	15.926	29.078	1263	16.208	29.923
1264	16.483	30.761	1265	16.753	31.592	1266	17.017	32.415
1267	17.274	33.230	1268	17.762	6.854	1269	18.560	7.408
1270	18.336	8.140	1271	18.149	8.843	1272	18.265	6.428
1273	18.770	6.000	1274	17.995	9.518	1275	17.867	10.167
1276	17.761	10.790	1277	17.672	11.390	1278	17.593	11.968
1279	17.520	12.524	1280	17.447	13.061	1281	17.337	13.610
1282	17.229	14.151	1283	17.122	14.685	1284	17.017	15.211
1285	16.913	15.729	1286	16.811	16.239	1287	16.711	16.741
1288	16.612	17.236	1289	16.515	17.722	1290	16.420	18.201
1291	16.326	18.672	1292	16.234	19.136	1293	16.144	19.591
1294	16.055	20.039	1295	15.968	20.479	1296	15.882	20.911
1297	15.798	21.335	1298	15.716	21.752	1299	15.635	22.161
1300	15.556	22.562	1301	15.479	22.955	1302	15.403	23.340
1303	15.329	23.718	1304	15.256	24.087	1305	15.186	24.449
1306	15.116	24.803	1307	15.049	25.149	1308	14.983	25.488
1309	15.280	26.378	1310	15.570	27.261	1311	15.855	28.136
1312	16.134	29.003	1313	16.407	29.864	1314	16.675	30.716
1315	16.936	31.562	1316	17.191	32.400	1317	17.440	33.230
1318	19.080	6.648	1319	18.858	7.684	1320	18.646	8.396
1321	18.469	9.079	1322	19.663	6.472	1323	20.220	6.000
1324	18.323	9.734	1325	18.200	10.363	1326	18.097	10.966
1327	18.008	11.545	1328	17.928	12.102	1329	17.850	12.638
1330	17.733	13.201	1331	17.618	13.757	1332	17.504	14.305
1333	17.392	14.844	1334	17.282	15.376	1335	17.174	15.899
1336	17.067	16.414	1337	16.962	16.921	1338	16.859	17.420
1339	16.757	17.911	1340	16.692	18.190	1341	16.560	18.868
1342	16.463	19.334	1343	16.369	19.793	1344	16.276	20.243
1345	16.185	20.685	1346	16.096	21.119	1347	16.008	21.545
1348	15.922	21.963	1349	15.838	22.372	1350	15.756	22.774
1351	15.675	23.167	1352	15.597	23.553	1353	15.519	23.930

1354	15.444	24.299	1355	15.370	24.660	1356	15.299	25.013
1357	15.228	25.357	1358	15.516	26.261	1359	15.798	27.158
1360	16.074	28.047	1361	16.344	28.929	1362	16.608	29.804
1363	16.867	30.671	1364	17.119	31.532	1365	17.366	32.384
1366	17.607	33.230	1367	19.382	7.227	1368	19.144	7.949
1369	18.944	8.641	1370	18.778	9.307	1371	19.908	6.767
1372	20.437	6.306	1373	20.782	6.000	1374	18.637	9.937
1375	18.519	10.545	1376	18.419	11.127	1377	18.330	11.685
1378	18.247	12.221	1379	18.123	12.799	1380	18.001	13.369
1381	17.881	13.930	1382	17.762	14.483	1383	17.646	15.028
1384	17.531	15.564	1385	17.418	16.092	1386	17.307	16.611
1387	17.198	17.122	1388	17.090	17.624	1389	16.985	18.118
1390	16.881	18.604	1391	16.780	19.081	1392	16.680	19.549
1393	16.582	20.010	1394	16.485	20.462	1395	16.391	20.905
1396	16.255	21.220	1397	16.208	21.767	1398	16.119	22.185
1399	16.032	22.594	1400	15.947	22.996	1401	15.864	23.389
1402	15.782	23.773	1403	15.703	24.149	1404	15.625	24.517
1405	15.549	24.876	1406	15.475	25.227	1407	15.754	26.144
1408	16.027	27.055	1409	16.294	27.958	1410	16.555	28.855
1411	16.810	29.744	1412	17.060	30.626	1413	17.304	31.501
1414	17.542	32.369	1415	17.774	33.230	1416	19.643	7.501
1417	19.418	8.202	1418	19.230	8.873	1419	19.071	9.514
1420	20.143	7.052	1421	20.645	6.602	1422	20.989	6.309
1423	21.353	6.000	1424	18.938	10.127	1425	18.825	10.713
1426	18.726	11.274	1427	18.636	11.810	1428	18.506	12.403
1429	18.513	13.180	1430	18.251	13.561	1431	18.126	14.128
1432	18.003	14.685	1433	17.882	15.234	1434	17.764	15.774
1435	17.647	16.305	1436	17.532	16.827	1437	17.419	17.341
1438	17.308	17.846	1439	17.199	18.343	1440	17.092	18.830
1441	16.987	19.309	1442	16.884	19.779	1443	16.783	20.240
1444	16.684	20.693	1445	16.587	21.137	1446	16.492	21.572
1447	16.398	21.999	1448	16.307	22.416	1449	16.218	22.825
1450	16.130	23.225	1451	16.045	23.617	1452	15.961	24.000
1453	15.880	24.374	1454	15.800	24.739	1455	15.723	25.095
1456	15.992	26.027	1457	16.256	26.952	1458	16.514	27.869
1459	16.766	28.780	1460	17.013	29.684	1461	17.254	30.581
1462	17.489	31.471	1463	17.719	32.354	1464	17.943	33.230
1465	19.893	7.764	1466	20.368	7.327	1467	19.681	8.444
1468	19.503	9.093	1469	19.353	9.713	1470	20.842	6.889
1471	21.187	6.608	1472	21.549	6.312	1473	21.934	6.000
1474	19.226	10.304	1475	19.116	10.868	1476	19.018	11.406
1477	18.882	12.013	1478	18.747	12.610	1479	18.614	13.198
1480	18.484	13.777	1481	18.355	14.347	1482	18.229	14.909
1483	18.104	15.461	1484	17.982	16.004	1485	17.862	16.538
1486	17.744	17.062	1487	17.628	17.578	1488	17.514	18.085
1489	17.402	18.583	1490	17.292	19.072	1491	17.184	19.551
1492	17.078	20.022	1493	16.975	20.483	1494	16.873	20.936
1495	16.774	21.380	1496	16.676	21.814	1497	16.581	22.239
1498	16.488	22.656	1499	16.397	23.063	1500	16.307	23.461
1501	16.220	23.850	1502	16.135	24.231	1503	16.053	24.602
1504	15.972	24.964	1505	16.232	25.909	1506	16.487	26.848
1507	16.736	27.780	1508	16.979	28.706	1509	17.217	29.624
1510	17.449	30.536	1511	17.676	31.441	1512	17.897	32.339
1513	18.112	33.230	1514	20.132	8.017	1515	20.581	7.591
1516	21.030	7.165	1517	19.933	8.675	1518	19.765	9.301
1519	19.622	9.898	1520	21.376	6.896	1521	21.737	6.614
1522	22.119	6.316	1523	22.525	6.000	1524	19.500	10.467
1525	19.394	11.008	1526	19.251	11.628	1527	19.110	12.239
1528	18.972	12.840	1529	18.836	13.432	1530	18.702	14.015
1531	18.570	14.588	1532	18.440	15.152	1533	18.313	15.707
1534	18.187	16.252	1535	18.064	16.788	1536	17.943	17.314
1537	17.825	17.831	1538	17.708	18.339	1539	17.594	18.837
1540	17.481	19.326	1541	17.371	19.806	1542	17.264	20.276
1543	17.158	20.737	1544	17.054	21.189	1545	16.953	21.631
1546	16.854	22.064	1547	16.757	22.487	1548	16.662	22.902
1549	16.570	23.306	1550	16.480	23.702	1551	16.391	24.088
1552	16.305	24.465	1553	16.222	24.832	1554	16.473	25.792
1555	16.718	26.745	1556	16.958	27.691	1557	17.193	28.631
1558	17.422	29.564	1559	17.645	30.490	1560	17.863	31.410
1561	18.076	32.323	1562	18.282	33.230	1563	20.360	8.258
1564	20.785	7.844	1565	21.208	7.432	1566	21.555	7.173
1567	20.173	8.893	1568	20.014	9.497	1569	19.879	10.071
1570	21.917	6.903	1571	22.297	6.619	1572	22.698	6.319
1573	23.126	6.000	1574	20.251	9.681	1575	19.762	10.617
1576	19.613	11.250	1577	19.467	11.874	1578	19.323	12.488
1579	19.182	13.093	1580	19.042	13.688	1581	18.905	14.273
1582	18.771	14.848	1583	18.638	15.414	1584	18.508	15.970
1585	18.380	16.517	1586	18.255	17.053	1587	18.132	17.581
1588	18.011	18.098	1589	17.892	18.606	1590	17.776	19.104
1591	17.662	19.592	1592	17.550	20.071	1593	17.441	20.540
1594	17.334	21.000	1595	17.229	21.450	1596	17.126	21.890
1597	17.026	22.320	1598	16.928	22.741	1599	16.832	23.152

1600	16.739	23.553	1601	16.648	23.945	1602	16.559	24.327
1603	16.473	24.700	1604	16.714	25.673	1605	16.951	26.641
1606	17.182	27.601	1607	17.407	28.556	1608	17.628	29.503
1609	17.842	30.445	1610	18.051	31.380	1611	18.255	32.308
1612	18.454	33.230	1613	20.577	8.489	1614	20.978	8.087
1615	21.376	7.689	1616	21.725	7.440	1617	22.088	7.181
1618	20.401	9.100	1619	20.122	10.232	1620	22.466	6.910
1621	22.864	6.625	1622	23.286	6.322	1623	23.736	6.000
1624	20.618	9.296	1625	20.476	9.853	1626	20.823	9.480
1627	19.969	10.878	1628	19.817	11.515	1629	19.668	12.142
1630	19.522	12.759	1631	19.377	13.365	1632	19.236	13.962
1633	19.096	14.549	1634	18.959	15.126	1635	18.825	15.693
1636	18.692	16.250	1637	18.563	16.796	1638	18.435	17.333
1639	18.310	17.860	1640	18.188	18.377	1641	18.068	18.884
1642	18.080	19.295	1643	17.835	19.868	1644	17.722	20.345
1645	17.611	20.813	1646	17.503	21.270	1647	17.397	21.717
1648	17.294	22.154	1649	17.193	22.581	1650	17.094	22.998
1651	16.998	23.406	1652	16.905	23.803	1653	16.813	24.190
1654	16.724	24.567	1655	16.957	25.555	1656	17.185	26.536
1657	17.406	27.511	1658	17.623	28.480	1659	17.834	29.443
1660	18.040	30.399	1661	18.241	31.349	1662	18.436	32.293
1663	18.626	33.230	1664	20.783	8.708	1665	21.161	8.320
1666	21.534	7.936	1667	21.887	7.696	1668	22.250	7.448
1669	22.627	7.189	1670	20.978	8.916	1671	20.317	10.512
1672	23.023	6.917	1673	23.440	6.630	1674	23.883	6.325
1675	24.356	6.000	1676	21.162	9.114	1677	20.659	10.152
1678	20.994	9.799	1679	21.322	9.451	1680	20.161	11.162
1681	20.007	11.801	1682	19.856	12.430	1683	19.707	13.048
1684	19.560	13.656	1685	19.417	14.254	1686	19.275	14.842
1687	19.136	15.419	1688	19.000	15.986	1689	18.866	16.543
1690	18.735	17.090	1691	18.606	17.626	1692	18.480	18.152
1693	18.357	18.668	1694	18.235	19.173	1695	18.117	19.668
1696	18.001	20.153	1697	17.887	20.627	1698	17.776	21.091
1699	17.667	21.545	1700	17.561	21.989	1701	17.458	22.422
1702	17.357	22.845	1703	17.258	23.258	1704	17.162	23.660
1705	17.068	24.053	1706	16.978	24.435	1707	17.201	25.436
1708	17.419	26.432	1709	17.632	27.421	1710	17.840	28.405
1711	18.042	29.382	1712	18.239	30.353	1713	18.431	31.318
1714	18.617	32.277	1715	18.799	33.230	1716	21.333	8.542
1717	21.682	8.173	1718	22.039	7.941	1719	22.404	7.703
1720	22.781	7.456	1721	23.174	7.197	1722	21.495	8.754
1723	20.498	10.814	1724	23.588	6.924	1725	24.025	6.636
1726	24.490	6.328	1727	24.986	6.000	1728	20.829	10.473
1729	21.153	10.137	1730	21.644	9.109	1731	21.470	9.807
1732	21.890	8.526	1733	21.725	9.218	1734	21.958	8.648
1735	20.340	11.466	1736	20.184	12.106	1737	20.030	12.736
1738	19.880	13.356	1739	19.732	13.964	1740	19.587	14.563
1741	19.444	15.150	1742	19.304	15.727	1743	19.188	16.142
1744	19.032	16.850	1745	18.899	17.395	1746	18.770	17.929
1747	18.643	18.453	1748	18.518	18.967	1749	18.397	19.470
1750	18.278	19.962	1751	18.161	20.444	1752	18.047	20.915
1753	17.936	21.375	1754	17.828	21.825	1755	17.722	22.264
1756	17.619	22.693	1757	17.518	23.111	1758	17.420	23.518
1759	17.324	23.915	1760	17.232	24.301	1761	17.327	25.140
1762	17.655	26.327	1763	17.859	27.331	1764	18.057	28.329
1765	18.251	29.321	1766	18.439	30.307	1767	18.622	31.287
1768	18.800	32.262	1769	18.973	33.230	1770	21.820	8.400
1771	22.181	8.176	1772	22.549	7.947	1773	22.927	7.710
1774	23.319	7.464	1775	23.729	7.205	1776	20.666	11.136
1777	24.161	6.932	1778	24.618	6.641	1779	25.105	6.331
1780	25.626	6.000	1781	20.986	10.812	1782	21.300	10.493
1783	21.563	9.899	1784	21.805	9.322	1785	22.026	8.767
1786	26.276	6.000	1787	26.935	6.000	1788	27.604	6.000
1789	28.283	6.000	1790	28.972	6.000	1791	29.670	6.000
1792	21.820	8.400	1793	20.506	11.788	1794	20.349	12.429
1795	20.194	13.060	1796	20.042	13.679	1797	19.893	14.288
1798	19.747	14.885	1799	19.603	15.472	1800	19.462	16.048
1801	19.324	16.613	1802	19.189	17.167	1803	19.056	17.710
1804	18.926	18.242	1805	18.799	18.763	1806	18.675	19.274
1807	18.553	19.773	1808	18.434	20.262	1809	18.318	20.739
1810	18.204	21.206	1811	18.063	21.675	1812	17.986	22.107
1813	17.880	22.541	1814	17.778	22.964	1815	17.678	23.376
1816	17.581	23.778	1817	17.487	24.168	1818	17.692	25.198
1819	17.891	26.222	1820	18.086	27.241	1821	18.276	28.253
1822	18.460	29.260	1823	18.640	30.261	1824	18.814	31.257
1825	18.983	32.246	1826	19.148	33.230	1827	22.315	8.400
1828	22.685	8.179	1829	23.065	7.952	1830	23.456	7.717
1831	23.863	7.472	1832	24.290	7.213	1833	20.822	11.475
1834	24.741	6.939	1835	25.220	6.647	1836	25.730	6.335
1837	21.132	11.168	1838	21.404	10.569	1839	21.655	9.987
1840	21.920	9.232	1841	22.091	8.882	1842	26.364	6.338
1843	27.007	6.341	1844	27.659	6.344	1845	28.320	6.347

1846	28.990	6.350	1847	29.670	6.354	1848	22.037	8.787
1849	20.661	12.128	1850	20.503	12.769	1851	20.347	13.399
1852	20.195	14.017	1853	20.045	14.625	1854	19.898	15.221
1855	19.754	15.806	1856	19.613	16.380	1857	19.475	16.942
1858	19.340	17.493	1859	19.167	18.202	1860	19.077	18.563
1861	18.950	19.080	1862	18.826	19.587	1863	18.705	20.082
1864	18.587	20.566	1865	18.471	21.039	1866	18.359	21.500
1867	18.249	21.951	1868	18.142	22.390	1869	18.038	22.818
1870	17.937	23.234	1871	17.838	23.640	1872	17.743	24.034
1873	17.939	25.078	1874	18.129	26.117	1875	18.315	27.150
1876	18.495	28.177	1877	18.671	29.199	1878	18.842	30.215
1879	19.007	31.226	1880	19.168	32.231	1881	19.323	33.230
1882	22.568	9.070	1883	22.814	8.400	1884	23.194	8.182
1885	23.586	7.958	1886	23.991	7.724	1887	24.414	7.480
1888	24.859	7.221	1889	20.968	11.831	1890	25.330	6.946
1891	25.830	6.652	1892	21.248	11.229	1893	21.507	10.642
1894	21.746	10.072	1895	21.992	9.345	1896	22.156	8.994
1897	26.449	6.658	1898	27.076	6.663	1899	27.712	6.669
1900	28.356	6.674	1901	29.009	6.680	1902	29.670	6.685
1903	22.240	9.137	1904	20.806	12.482	1905	20.647	13.123
1906	20.492	13.751	1907	20.339	14.368	1908	20.189	14.973
1909	20.043	15.567	1910	19.899	16.150	1911	19.758	16.721
1912	19.620	17.280	1913	19.485	17.828	1914	19.353	18.364
1915	19.224	18.889	1916	19.098	19.402	1917	18.975	19.904
1918	18.855	20.394	1919	18.737	20.873	1920	18.623	21.340
1921	18.512	21.795	1922	18.404	22.239	1923	18.298	22.672
1924	18.196	23.093	1925	18.096	23.502	1926	18.000	23.900
1927	18.186	24.958	1928	18.368	26.011	1929	18.544	27.059
1930	18.716	28.101	1931	18.883	29.138	1932	19.198	30.540
1933	19.201	31.195	1934	19.353	32.215	1935	19.500	33.230
1936	22.713	9.305	1937	23.020	8.787	1938	23.316	8.400
1939	23.708	8.185	1940	24.112	7.963	1941	24.532	7.732
1942	24.971	7.487	1943	25.435	7.229	1944	21.095	11.878
1945	25.926	6.953	1946	21.363	11.287	1947	21.609	10.711
1948	21.835	10.153	1949	22.064	9.459	1950	22.219	9.102
1951	26.530	6.960	1952	27.143	6.967	1953	27.763	6.974
1954	28.391	6.981	1955	29.026	6.988	1956	29.670	6.996
1957	22.430	9.450	1958	19.680	33.300	1959	19.860	33.371
1960	20.944	12.517	1961	20.797	13.145	1962	20.652	13.763
1963	20.510	14.370	1964	20.371	14.966	1965	20.235	15.552
1966	20.102	16.127	1967	19.971	16.692	1968	19.844	17.247
1969	19.719	17.790	1970	19.597	18.323	1971	19.479	18.846
1972	19.362	19.358	1973	19.249	19.859	1974	19.139	20.350
1975	19.032	20.830	1976	18.927	21.300	1977	18.825	21.759
1978	18.726	22.208	1979	18.853	22.728	1980	18.537	23.074
1981	18.447	23.491	1982	18.360	23.897	1983	18.526	24.959
1984	18.687	26.016	1985	18.843	27.070	1986	18.995	28.119
1987	19.141	29.163	1988	19.283	30.204	1989	19.421	31.240
1990	19.553	32.273	1991	22.858	9.538	1992	23.214	9.137
1993	23.635	8.910	1994	23.823	8.400	1995	24.226	8.189
1996	24.644	7.969	1997	25.079	7.739	1998	25.536	7.495
1999	26.018	7.237	2000	21.221	11.922	2001	21.476	11.342
2002	21.710	10.777	2003	21.923	10.231	2004	22.137	9.573
2005	22.281	9.206	2006	26.609	7.244	2007	27.206	7.252
2008	27.811	7.260	2009	28.424	7.268	2010	29.043	7.276
2011	29.670	7.284	2012	22.607	9.727	2013	19.752	32.330
2014	20.038	33.441	2015	19.952	32.958	2016	20.215	33.510
2017	21.081	12.548	2018	20.945	13.165	2019	20.811	13.772
2020	20.680	14.369	2021	20.552	14.957	2022	20.427	15.535
2023	20.304	16.103	2024	20.184	16.662	2025	20.067	17.211
2026	19.953	17.751	2027	19.841	18.281	2028	19.733	18.802
2029	19.627	19.313	2030	19.523	19.814	2031	19.423	20.306
2032	19.325	20.788	2033	19.230	21.260	2034	19.138	21.723
2035	19.049	22.177	2036	18.962	22.620	2037	18.878	23.055
2038	18.797	23.479	2039	18.719	23.894	2040	18.865	24.959
2041	19.005	26.021	2042	19.142	27.080	2043	19.273	28.136
2044	19.400	29.189	2045	19.522	30.239	2046	19.639	31.286
2047	23.089	9.727	2048	23.398	9.450	2049	23.704	9.137
2050	24.014	8.787	2051	24.334	8.400	2052	24.750	8.192
2053	25.181	7.975	2054	25.632	7.746	2055	26.106	7.503
2056	21.345	11.964	2057	21.589	11.394	2058	21.810	10.840
2059	22.010	10.306	2060	22.197	9.671	2061	22.342	9.306
2062	26.684	7.511	2063	27.268	7.519	2064	27.858	7.527
2065	28.456	7.535	2066	29.060	7.543	2067	29.670	7.551
2068	22.770	9.967	2069	19.857	31.331	2070	20.147	32.444
2071	20.074	31.377	2072	20.391	33.580	2073	20.330	33.123
2074	20.566	33.649	2075	21.217	12.577	2076	21.092	13.182
2077	20.970	13.778	2078	20.850	14.366	2079	20.732	14.945
2080	20.618	15.515	2081	20.506	16.077	2082	20.396	16.630
2083	20.290	17.174	2084	20.186	17.710	2085	20.085	18.237
2086	19.986	18.756	2087	19.890	19.266	2088	19.797	19.767
2089	19.707	20.260	2090	19.619	20.744	2091	19.585	21.310

2092	19.451	21.687	2093	19.371	22.145	2094	19.294	22.594		
2095	19.220	23.035	2096	19.148	23.468	2097	19.079	23.892		
2098	19.204	24.960	2099	19.324	26.026	2100	19.440	27.091		
2101	19.551	28.154	2102	19.657	29.215	2103	19.759	30.274		
2104	23.251	9.967	2105	23.569	9.727	2106	23.881	9.450		
2107	24.194	9.137	2108	24.514	8.787	2109	24.850	8.400		
2110	25.277	8.195	2111	25.723	7.980	2112	26.191	7.753		
2113	21.469	12.002	2114	21.700	11.442	2115	21.909	10.900		
2116	22.095	10.377	2117	22.258	9.770	2118	22.401	9.403		
2119	26.756	7.760	2120	27.326	7.767	2121	27.903	7.774		
2122	28.486	7.781	2123	29.075	7.788	2124	29.670	7.796		
2125	22.920	10.170	2126	19.996	30.309	2127	20.290	31.422		
2128	20.232	30.344	2129	20.538	32.557	2130	20.505	31.467		
2131	20.740	33.718	2132	20.732	32.614	2133	22.459	9.496		
2134	22.874	10.110	2135	22.515	9.586	2136	22.827	10.046		
2137	22.571	9.671	2138	22.778	9.978	2139	22.624	9.754		
2140	22.728	9.907	2141	22.677	9.832	2142	21.353	12.603		
2143	21.238	13.197	2144	21.127	13.782	2145	21.018	14.360		
2146	20.912	14.931	2147	20.808	15.493	2148	20.707	16.049		
2149	20.608	16.596	2150	20.512	17.136	2151	20.419	17.668		
2152	20.328	18.192	2153	20.239	18.709	2154	20.154	19.218		
2155	20.071	19.720	2156	19.990	20.214	2157	19.912	20.700		
2158	19.837	21.178	2159	19.764	21.649	2160	19.694	22.113		
2161	19.626	22.568	2162	19.561	23.016	2163	19.499	23.457		
2164	19.439	23.889	2165	19.543	24.961	2166	19.642	26.032		
2167	19.737	27.102	2168	19.828	28.172	2169	19.914	29.241		
2170	23.729	9.967	2171	23.401	10.170	2172	24.048	9.727		
2173	24.365	9.450	2174	24.686	9.137	2175	25.018	8.787		
2176	25.369	8.400	2177	25.880	8.285	2178	26.271	7.986		
2179	21.592	12.038	2180	21.810	11.488	2181	22.006	10.956		
2182	22.180	10.445	2183	22.318	9.868	2184	26.824	7.991		
2185	27.383	7.997	2186	27.946	8.002	2187	28.516	8.008		
2188	29.090	8.013	2189	29.670	8.019	2190	827	22.505	10.684	2271
2272	22.583	10.735	2273	21.255	33.924	2274	21.308	32.782	22.661	10.782
2275	21.620	12.647	2276	21.528	13.217	2277	21.439	13.783		
2278	21.352	14.342	2279	21.268	14.896	2280	21.186	15.444		
2281	21.106	15.986	2282	21.029	16.522	2283	20.954	17.053		
2284	20.882	17.578	2285	20.812	18.098	2286	20.744	18.612		
2287	20.679	19.120	2288	20.616	19.622	2289	20.556	20.118		
2290	20.498	20.609	2291	20.442	21.094	2292	20.389	21.574		
2293	20.485	22.243	2294	20.290	22.515	2295	20.244	22.978		
2296	20.200	23.434	2297	20.159	23.885	2298	20.221	24.963		
2299	20.279	26.043	2300	20.368	27.295	2301	23.922	10.562		
2302	24.350	10.170	2303	24.676	9.967	2304	23.499	10.965		
2305	25.001	9.727	2306	25.331	9.450	2307	25.672	9.137		
2308	26.033	8.787	2309	26.420	8.400	2310	21.834	12.100		
2311	22.027	11.570	2312	22.197	11.059	2313	26.951	8.400		
2314	27.487	8.400	2315	28.026	8.400	2316	28.570	8.400		
2317	29.118	8.400	2318	29.670	8.400	2319	23.000	11.363		
2320	22.915	11.342	2321	22.829	11.318	2322	23.083	11.381		
2323	20.629	27.135	2324	20.933	28.243	2325	20.926	27.146		
2326	21.191	29.369	2327	21.208	28.261	2328	21.357	31.646		
2329	21.403	30.517	2330	21.445	29.395	2331	22.291	11.106		
2332	22.743	11.291	2333	22.384	11.150	2334	22.655	11.261		
2335	22.475	11.190	2336	22.566	11.227	2337	21.425	33.992		
2338	21.425	33.608	2339	21.568	31.691	2340	21.593	34.060		
2341	21.752	12.664	2342	21.671	13.224	2343	21.594	13.779		
2344	21.518	14.329	2345	21.445	14.875	2346	21.374	15.416		
2347	21.305	15.952	2348	21.239	16.483	2349	21.175	17.010		
2350	21.113	17.531	2351	21.053	18.048	2352	20.996	18.561		
2353	20.941	19.068	2354	20.889	19.571	2355	20.838	20.069		
2356	20.790	20.563	2357	20.745	21.051	2358	20.701	21.535		
2359	20.660	22.014	2360	20.622	22.489	2361	20.585	22.958		
2362	20.551	23.423	2363	20.519	23.883	2364	20.560	24.964		
2365	20.596	26.048	2366	23.967	10.960	2367	24.390	10.559		
2368	24.818	10.170	2369	25.146	9.967	2370	23.550	11.373		
2371	25.475	9.727	2372	25.814	9.450	2373	26.168	9.137		
2374	26.545	8.787	2375	21.954	12.126	2376	22.134	11.606		
2377	27.059	8.787	2378	27.576	8.787	2379	28.095	8.787		
2380	28.618	8.787	2381	29.142	8.787	2382	29.670	8.787		
2383	23.044	11.793	2384	22.947	11.784	2385	22.849	11.773		
2386	22.751	11.758	2387	23.139	11.798	2388	20.914	26.054		
2389	21.222	27.158	2390	21.232	26.060	2391	21.483	28.279		
2392	21.518	27.169	2393	21.635	30.552	2394	21.907	28.983		
2395	21.758	28.296	2396	22.239	11.639	2397	22.651	11.741		
2398	22.344	11.669	2399	22.549	11.720	2400	22.447	11.696		
2401	21.687	32.893	2402	21.778	31.735	2403	21.866	30.586		
2404	21.760	34.128	2405	21.876	32.949	2406	21.883	12.679		
2407	21.814	13.228	2408	21.747	13.773	2409	21.683	14.314		
2410	21.621	14.852	2411	21.561	15.385	2412	21.503	15.915		
2413	21.448	16.442	2414	21.394	16.964	2415	21.343	17.483		
2416	21.294	17.998	2417	21.247	18.509	2418	21.203	19.016		

2419	21.161	19.520	2420	21.100	19.802	2421	21.083	20.515
2422	21.047	21.008	2423	21.014	21.496	2424	20.982	21.981
2425	20.953	22.462	2426	20.926	22.939	2427	20.902	23.412
2428	20.879	23.882	2429	20.899	24.966	2430	24.014	11.366
2431	24.431	10.955	2432	24.854	10.556	2433	25.281	10.170
2434	25.612	9.967	2435	23.602	11.789	2436	25.948	9.727
2437	26.296	9.450	2438	26.664	9.137	2439	22.072	12.150
2440	27.162	9.137	2441	27.661	9.137	2442	28.162	9.137
2443	28.663	9.137	2444	29.166	9.137	2445	29.670	9.137
2446	23.089	12.228	2447	22.981	12.231	2448	22.871	12.232
2449	22.760	12.229	2450	22.648	12.223	2451	23.197	12.222
2452	21.238	24.968	2453	21.549	26.066	2454	21.814	27.180
2455	21.951	29.446	2456	22.032	28.314	2457	22.189	12.170
2458	22.535	12.214	2459	22.306	12.188	2460	22.421	12.202
2461	21.988	31.779	2462	21.985	31.380	2463	22.203	29.471
2464	21.926	34.196	2465	21.926	33.820	2466	22.196	31.824
2467	22.013	12.691	2468	21.955	13.229	2469	21.900	13.764
2470	21.847	14.296	2471	21.796	14.826	2472	21.747	15.353
2473	21.700	15.877	2474	21.656	16.398	2475	21.613	16.917
2476	21.573	17.432	2477	21.535	17.945	2478	21.498	18.455
2479	21.464	18.963	2480	21.432	19.467	2481	21.402	19.969
2482	21.375	20.467	2483	21.349	20.963	2484	21.326	21.457
2485	21.304	21.947	2486	21.285	22.435	2487	21.220	23.065
2488	21.253	23.401	2489	21.200	24.365	2490	24.061	11.780
2491	24.473	11.359	2492	24.891	10.950	2493	25.313	10.554
2494	25.740	10.170	2495	26.075	9.967	2496	23.655	12.211
2497	26.419	9.727	2498	26.779	9.450	2499	27.261	9.450
2500	27.743	9.450	2501	28.225	9.450	2502	28.707	9.450
2503	29.189	9.450	2504	29.670	9.450	2505	23.136	12.670
2506	23.016	12.683	2507	22.894	12.694	2508	22.771	12.702
2509	22.647	12.707	2510	22.522	12.710	2511	23.256	12.653
2512	21.576	24.969	2513	21.866	26.072	2514	22.109	27.192
2515	22.305	28.332	2516	22.142	12.700	2517	22.396	12.709
2518	22.308	12.988	2519	22.327	30.655	2520	22.454	29.497
2521	22.091	34.263	2522	22.249	33.059	2523	22.404	31.868
2524	22.556	30.689	2525	22.255	34.330	2526	22.096	13.227
2527	22.052	13.753	2528	22.010	14.276	2529	21.970	14.798
2530	21.933	15.318	2531	21.897	15.837	2532	21.863	16.353
2533	21.832	16.868	2534	21.802	17.381	2535	21.774	17.892
2536	21.749	18.401	2537	21.725	18.908	2538	21.704	19.413
2539	21.684	19.917	2540	21.666	20.419	2541	21.651	20.919
2542	21.700	21.163	2543	21.626	21.913	2544	21.617	22.407
2545	21.609	22.900	2546	21.604	23.391	2547	21.600	23.880
2548	24.109	12.200	2549	24.516	11.771	2550	24.928	11.352
2551	25.346	10.945	2552	25.768	10.551	2553	26.194	10.170
2554	26.535	9.967	2555	23.709	12.641	2556	26.888	9.727
2557	27.356	9.727	2558	27.822	9.727	2559	28.286	9.727
2560	28.749	9.727	2561	29.210	9.727	2562	29.670	9.727
2563	23.316	13.091	2564	23.185	13.117	2565	23.052	13.140
2566	22.918	13.161	2567	22.783	13.178	2568	22.648	13.194
2569	22.511	13.206	2570	21.915	24.972	2571	22.183	26.078
2572	22.404	27.203	2573	22.578	28.350	2574	22.235	13.223
2575	22.374	13.216	2576	22.705	29.522	2577	22.434	33.114
2578	22.611	31.911	2579	22.784	30.723	2580	22.418	34.397
2581	22.418	34.003	2582	22.579	34.464	2583	22.740	34.530
2584	22.203	13.739	2585	22.173	14.254	2586	22.144	14.768
2587	22.118	15.282	2588	22.093	15.794	2589	22.070	16.306
2590	22.049	16.817	2591	22.031	17.327	2592	22.014	17.836
2593	21.999	18.345	2594	21.986	18.852	2595	21.975	19.359
2596	21.965	19.864	2597	21.958	20.369	2598	21.953	20.873
2599	21.949	21.376	2600	21.948	21.878	2601	21.948	22.380
2602	21.950	22.880	2603	21.955	23.380	2604	21.961	23.879
2605	24.159	12.628	2606	24.560	12.189	2607	24.967	11.761
2608	25.380	11.345	2609	25.797	10.940	2610	26.219	10.549
2611	26.644	10.170	2612	26.992	9.967	2613	23.764	13.077
2614	27.446	9.967	2615	27.896	9.967	2616	28.344	9.967
2617	28.789	9.967	2618	29.231	9.967	2619	29.670	9.967
2620	23.378	13.536	2621	23.234	13.570	2622	23.089	13.602
2623	22.944	13.631	2624	22.798	13.658	2625	22.650	13.682
2626	22.502	13.703	2627	22.254	24.974	2628	22.500	26.085
2629	22.699	27.215	2630	22.851	28.368	2631	22.353	13.722
2632	22.955	29.548	2633	22.817	31.955	2634	23.012	30.757
2635	22.802	33.223	2636	23.022	31.999	2637	23.050	34.195
2638	23.256	34.530	2639	22.334	14.229	2640	22.317	14.736
2641	22.302	15.243	2642	22.288	15.750	2643	22.276	16.257
2644	22.267	16.765	2645	22.259	17.272	2646	22.253	17.780
2647	22.248	18.287	2648	22.246	18.795	2649	22.245	19.303
2650	22.246	19.811	2651	22.249	20.319	2652	22.254	20.827
2653	22.261	21.335	2654	22.269	21.844	2655	22.280	22.352
2656	22.292	22.861	2657	22.306	23.369	2658	22.322	23.878
2659	24.209	13.063	2660	24.604	12.616	2661	25.006	12.178
2662	25.414	11.752	2663	25.827	11.338	2664	26.244	10.936

2665	26.665	10.546	2666	27.090	10.170	2667	23.821	13.521
2668	27.531	10.170	2669	27.968	10.170	2670	28.400	10.170
2671	28.828	10.170	2672	29.251	10.170	2673	29.670	10.170
2674	23.440	13.988	2675	23.285	14.030	2676	23.128	14.069
2677	22.971	14.106	2678	22.813	14.140	2679	22.654	14.172
2680	22.495	14.202	2681	22.593	24.976	2682	22.817	26.091
2683	22.994	27.227	2684	23.123	28.386	2685	23.205	29.573
2686	23.239	30.791	2687	23.226	32.042	2688	23.522	34.210
2689	23.763	34.530	2690	22.489	14.702	2691	22.485	15.202
2692	22.483	15.704	2693	22.482	16.207	2694	22.483	16.711
2695	22.486	17.216	2696	22.491	17.722	2697	22.497	18.229
2698	22.505	18.737	2699	22.515	19.246	2700	22.527	19.757
2701	22.540	20.268	2702	22.555	20.780	2703	22.572	21.294
2704	22.591	21.809	2705	22.611	22.324	2706	22.633	22.841
2707	22.657	23.359	2708	22.683	23.878	2709	24.260	13.506
2710	24.718	12.938	2711	25.047	12.603	2712	25.449	12.167
2713	25.857	11.743	2714	26.270	11.331	2715	26.687	10.931
2716	27.108	10.544	2717	23.878	13.972	2718	27.545	10.541
2719	27.979	10.538	2720	28.408	10.536	2721	28.833	10.533
2722	29.254	10.531	2723	29.670	10.528	2724	23.504	14.447
2725	23.337	14.495	2726	23.169	14.541	2727	23.000	14.584
2728	22.830	14.626	2729	22.660	14.665	2730	22.932	24.979
2731	23.134	26.098	2732	23.288	27.239	2733	23.395	28.404
2734	23.454	29.598	2735	23.466	30.824	2736	23.698	32.037
2737	24.115	34.208	2738	24.264	34.530	2739	22.667	15.159
2740	22.676	15.656	2741	22.687	16.154	2742	22.699	16.655
2743	22.713	17.157	2744	22.729	17.662	2745	22.746	18.169
2746	22.765	18.678	2747	22.785	19.188	2748	22.807	19.701
2749	22.913	20.282	2750	22.857	20.733	2751	22.884	21.252
2752	22.912	21.773	2753	22.943	22.296	2754	22.975	22.821
2755	23.008	23.348	2756	23.043	23.878	2757	24.313	13.955
2758	24.697	13.490	2759	25.088	13.035	2760	25.485	12.590
2761	25.888	12.156	2762	26.297	11.734	2763	26.709	11.323
2764	27.126	10.926	2765	23.937	14.429	2766	27.560	10.921
2767	27.991	10.916	2768	28.417	10.911	2769	28.839	10.906
2770	29.670	10.896	2771	29.256	10.901	2772	23.568	14.912
2773	23.390	14.966	2774	23.210	15.017	2775	23.030	15.067
2776	22.849	15.114	2777	23.271	24.981	2778	23.450	26.105
2779	23.582	27.250	2780	23.666	28.422	2781	23.702	29.624
2782	23.917	30.818	2783	24.165	32.032	2784	24.404	34.206
2785	24.756	34.530	2786	22.869	15.605	2787	22.891	16.100
2788	22.915	16.597	2789	22.940	17.098	2790	22.966	17.601
2791	22.994	18.108	2792	23.024	18.617	2793	23.055	19.130
2794	23.087	19.645	2795	23.122	20.164	2796	23.157	20.685
2797	23.195	21.210	2798	23.234	21.737	2799	23.274	22.268
2800	23.316	22.801	2801	23.359	23.338	2802	23.405	23.878
2803	24.366	14.412	2804	24.744	13.939	2805	25.130	13.475
2806	25.522	13.021	2807	25.920	12.578	2808	26.324	12.146
2809	26.732	11.725	2810	27.144	11.316	2811	23.996	14.894
2812	27.630	11.318	2813	28.002	11.302	2814	28.425	11.295
2815	28.844	11.288	2816	29.259	11.281	2817	29.670	11.273
2818	23.634	15.384	2819	23.444	15.443	2820	23.253	15.499
2821	23.062	15.553	2822	23.609	24.984	2823	23.766	26.112
2824	23.895	27.530	2825	23.937	28.440	2826	24.132	29.617
2827	24.362	30.811	2828	24.625	32.027	2829	24.756	34.208
2830	25.241	34.530	2831	25.718	34.530	2832	26.188	34.530
2833	23.095	16.044	2834	23.129	16.538	2835	23.165	17.036
2836	23.203	17.539	2837	23.242	18.045	2838	23.282	18.556
2839	23.324	19.070	2840	23.367	19.588	2841	23.412	20.110
2842	23.458	20.637	2843	23.506	21.167	2844	23.555	21.701
2845	23.605	22.239	2846	23.708	22.757	2847	23.711	23.328
2848	23.766	23.878	2849	24.673	14.682	2850	24.793	14.395
2851	25.173	13.923	2852	25.559	13.460	2853	25.953	13.007
2854	26.351	12.565	2855	26.755	12.135	2856	27.163	11.716
2857	24.057	15.366	2858	27.591	11.707	2859	28.015	11.697
2860	28.850	11.679	2861	28.434	11.688	2862	29.262	11.670
2863	29.670	11.661	2864	23.702	15.864	2865	23.500	15.926
2866	23.298	15.986	2867	23.948	24.987	2868	24.082	26.119
2869	24.169	27.274	2870	24.346	28.433	2871	24.557	29.609
2872	24.802	30.805	2873	25.079	32.022	2874	25.267	34.212
2875	25.837	34.220	2876	26.650	34.530	2877	26.385	34.222
2878	27.104	34.530	2879	23.344	16.477	2880	23.391	16.974
2881	23.439	17.475	2882	23.489	17.981	2883	23.540	18.493
2884	23.593	19.009	2885	23.647	19.530	2886	23.702	20.056
2887	23.759	20.588	2888	23.817	21.124	2889	23.876	21.665
2890	23.937	22.211	2891	23.999	22.762	2892	24.062	23.318
2893	24.127	23.878	2894	24.476	15.348	2895	24.842	14.859
2896	25.216	14.378	2897	25.598	13.906	2898	25.986	13.445
2899	26.380	12.993	2900	26.779	12.553	2901	27.183	12.124
2902	24.119	15.845	2903	27.607	12.113	2904	28.027	12.102
2905	28.856	12.080	2906	29.265	12.069	2907	28.443	12.091
2908	29.670	12.058	2909	23.770	16.350	2910	23.557	16.414

2911	24.287	24.991	2912	24.398	26.126	2913	24.557	27.268
2914	24.751	28.426	2915	24.978	29.602	2916	25.237	30.798
2917	25.527	32.017	2918	25.969	32.012	2919	26.800	34.208
2920	26.404	32.007	2921	27.551	34.530	2922	27.222	34.222
2923	27.990	34.530	2924	23.615	16.909	2925	23.675	17.410
2926	23.736	17.916	2927	23.798	18.429	2928	23.861	18.947
2929	23.926	19.472	2930	23.992	20.002	2931	24.059	20.538
2932	24.127	21.080	2933	24.197	21.628	2934	24.268	22.182
2935	24.340	22.742	2936	24.414	23.307	2937	24.488	23.879
2938	24.533	15.827	2939	24.893	15.330	2940	25.261	14.841
2941	25.637	14.361	2942	26.020	13.890	2943	26.409	13.429
2944	26.803	12.979	2945	27.203	12.540	2946	24.181	16.331
2947	27.623	12.528	2948	28.453	12.502	2949	28.040	12.515
2950	28.862	12.490	2951	29.268	12.477	2952	29.670	12.465
2953	23.840	16.843	2954	24.625	24.994	2955	24.766	26.121
2956	24.942	27.261	2957	25.152	28.419	2958	25.435	29.560
2959	25.667	30.792	2960	26.091	30.785	2961	26.834	32.002
2962	26.510	30.779	2963	27.615	34.225	2964	27.257	31.997
2965	28.422	34.530	2966	28.000	34.227	2967	28.845	34.530
2968	29.262	34.530	2969	23.910	17.343	2970	23.982	17.850
2971	24.055	18.364	2972	24.129	18.884	2973	24.205	19.412
2974	24.281	19.946	2975	24.359	20.488	2976	24.438	21.036
2977	24.518	21.591	2978	24.599	22.153	2979	24.682	22.722
2980	24.765	23.297	2981	24.850	23.880	2982	24.590	16.313
2983	24.944	15.808	2984	25.307	15.311	2985	25.677	14.823
2986	26.054	14.344	2987	26.438	13.874	2988	26.828	13.414
2989	27.223	12.965	2990	24.245	16.825	2991	27.640	12.951
2992	28.462	12.923	2993	28.868	12.909	2994	28.053	12.937
2995	29.271	12.895	2996	29.670	12.881	2997	24.972	24.991
2998	25.131	26.116	2999	25.324	27.255	3000	25.549	28.412
3001	25.806	29.588	3002	26.213	29.580	3003	26.924	30.772
3004	26.615	29.573	3005	27.675	31.992	3006	27.332	30.766
3007	28.395	34.227	3008	28.086	31.987	3009	28.787	34.230
3010	29.670	34.530	3011	29.185	34.232	3012	24.310	17.325
3013	24.377	17.832	3014	24.444	18.347	3015	24.512	18.868
3016	24.581	19.397	3017	24.652	19.932	3018	24.724	20.475
3019	24.796	21.025	3020	24.870	21.582	3021	24.945	22.146
3022	25.021	22.717	3023	25.098	23.295	3024	25.176	23.880
3025	24.649	16.806	3026	24.996	16.294	3027	25.353	15.790
3028	25.717	15.293	3029	26.089	14.805	3030	26.468	14.327
3031	26.854	13.858	3032	27.244	13.399	3033	28.066	13.369
3034	27.657	13.384	3035	28.472	13.353	3036	28.875	13.338
3037	29.274	13.323	3038	29.670	13.308	3039	25.430	25.558
3040	25.493	26.110	3041	25.702	27.248	3042	25.943	28.404
3043	26.333	28.397	3044	27.013	29.566	3045	26.719	28.390
3046	27.735	30.759	3047	27.406	29.559	3048	28.491	31.982
3049	28.133	30.753	3050	28.890	31.976	3051	29.670	33.234
3052	29.283	31.971	3053	24.708	17.306	3054	24.769	17.814
3055	24.830	18.329	3056	24.893	18.852	3057	24.957	19.381
3058	25.021	19.918	3059	25.087	20.462	3060	25.153	21.014
3061	25.221	21.573	3062	25.290	22.138	3063	25.359	22.712
3064	25.430	23.292	3065	25.502	23.880	3066	25.050	16.787
3067	25.400	16.275	3068	25.759	15.771	3069	26.125	15.275
3070	26.499	14.787	3071	26.879	14.309	3072	27.266	13.841
3073	28.080	13.809	3074	28.482	13.792	3075	27.674	13.825
3076	28.882	13.776	3077	29.277	13.760	3078	29.670	13.744
3079	25.661	24.986	3080	25.854	26.105	3081	26.078	27.242
3082	26.451	27.235	3083	27.101	28.383	3084	26.821	27.229
3085	27.795	29.551	3086	27.479	28.375	3087	28.525	30.746
3088	28.179	29.544	3089	29.075	31.063	3090	29.670	31.966
3091	29.294	30.733	3092	25.104	17.288	3093	25.159	17.796
3094	25.215	18.312	3095	25.272	18.835	3096	25.330	19.366
3097	25.389	19.904	3098	25.448	20.450	3099	25.509	21.003
3100	25.571	21.563	3101	25.633	22.131	3102	25.697	22.707
3103	25.761	23.290	3104	25.827	23.880	3105	25.455	16.925
3106	25.801	16.257	3107	26.162	15.752	3108	26.531	15.256
3109	26.906	14.770	3110	27.287	14.292	3111	28.493	14.241
3112	28.094	14.258	3113	28.888	14.224	3114	27.692	14.275
3115	29.281	14.207	3116	29.670	14.189	3117	26.003	24.983
3118	26.212	26.100	3119	26.568	26.095	3120	27.187	27.222
3121	26.922	26.090	3122	27.854	28.368	3123	27.551	27.216
3124	28.559	29.537	3125	28.225	28.361	3126	28.934	29.530
3127	29.670	30.727	3128	29.304	29.522	3129	25.497	17.270
3130	25.547	17.779	3131	25.597	18.295	3132	25.649	18.819
3133	25.701	19.351	3134	25.754	19.890	3135	25.808	20.437
3136	25.863	20.992	3137	25.990	21.583	3138	25.976	22.124
3139	26.033	22.702	3140	26.092	23.287	3141	26.151	23.880
3142	25.844	16.750	3143	26.200	16.238	3144	26.563	15.734
3145	26.933	15.238	3146	27.310	14.752	3147	28.895	14.681
3148	28.503	14.698	3149	28.108	14.716	3150	29.284	14.663
3151	27.711	14.734	3152	29.670	14.645	3153	26.344	24.980
3154	26.683	24.977	3155	27.292	25.567	3156	27.021	24.974

3157	27.912	27.209	3158	27.622	26.080	3159	28.592	28.354
3160	28.270	27.203	3161	28.955	28.346	3162	29.670	29.515
3163	29.314	28.339	3164	25.888	17.252	3165	25.932	17.761
3166	25.978	18.278	3167	26.024	18.803	3168	26.071	19.336
3169	26.119	19.876	3170	26.167	20.425	3171	26.216	20.981
3172	26.266	21.545	3173	26.317	22.117	3174	26.369	22.697
3175	26.421	23.285	3176	26.474	23.880	3177	26.238	16.732
3178	26.596	16.219	3179	26.961	15.715	3180	27.333	15.220
3181	27.729	15.202	3182	29.288	15.128	3183	28.902	15.147
3184	28.514	15.165	3185	28.123	15.183	3186	29.670	15.110
3187	26.797	23.880	3188	27.357	24.971	3189	27.119	23.880
3190	27.969	26.075	3191	27.692	24.968	3192	28.624	27.196
3193	28.314	26.070	3194	28.955	26.665	3195	29.782	28.075
3196	29.324	27.183	3197	26.277	17.233	3198	26.316	17.743
3199	26.356	18.261	3200	26.397	18.787	3201	26.439	19.320
3202	26.481	19.862	3203	26.524	20.412	3204	26.568	20.970
3205	26.612	21.536	3206	26.658	22.110	3207	26.703	22.692
3208	26.750	23.282	3209	26.629	16.713	3210	26.989	16.201
3211	27.356	15.697	3212	27.748	15.678	3213	28.138	15.660
3214	29.670	15.585	3215	29.291	15.604	3216	28.909	15.622
3217	28.525	15.641	3218	27.323	23.132	3219	27.441	23.880
3220	27.405	23.277	3221	28.026	24.965	3222	27.761	23.880
3223	28.656	26.065	3224	28.357	24.962	3225	28.996	26.060
3226	29.670	27.177	3227	29.334	26.055	3228	26.663	17.215
3229	26.697	17.725	3230	26.733	18.244	3231	26.768	18.770
3232	26.805	19.305	3233	26.842	19.848	3234	26.880	20.400
3235	26.918	20.959	3236	26.957	21.527	3237	26.997	22.103
3238	27.037	22.687	3239	27.018	16.695	3240	27.380	16.182
3241	27.768	16.163	3242	28.153	16.145	3243	28.536	16.126
3244	29.670	16.070	3245	29.295	16.089	3246	28.917	16.107
3247	27.369	22.682	3248	27.731	23.274	3249	27.701	22.677
3250	28.081	23.880	3251	28.056	23.272	3252	28.688	24.959
3253	28.400	23.880	3254	29.017	24.957	3255	29.670	26.050
3256	29.344	24.954	3257	27.047	17.197	3258	27.077	17.707
3259	27.107	18.227	3260	27.138	18.754	3261	27.169	19.290
3262	27.201	19.834	3263	27.234	20.387	3264	27.267	20.948
3265	27.301	21.518	3266	27.335	22.096	3267	27.404	16.676
3268	27.788	16.657	3269	28.169	16.639	3270	28.548	16.620
3271	28.924	16.602	3272	29.670	16.565	3273	29.298	16.583
3274	27.672	22.088	3275	28.032	22.672	3276	28.008	22.081
3277	28.381	23.269	3278	28.361	22.667	3279	28.719	23.880
3280	28.704	23.267	3281	29.037	23.880	3282	29.670	24.951
3283	29.354	23.880	3284	27.428	17.178	3285	27.454	17.690
3286	27.479	18.209	3287	27.528	18.620	3288	27.532	19.275
3289	27.559	19.820	3290	27.586	20.374	3291	27.614	20.937
3292	27.643	21.509	3293	27.808	17.160	3294	28.185	17.142
3295	28.560	17.124	3296	28.932	17.105	3297	29.302	17.087
3298	29.670	17.069	3299	27.984	21.499	3300	28.342	22.074
3301	28.323	21.490	3302	28.690	22.662	3303	28.676	22.067
3304	29.027	23.264	3305	29.018	22.657	3306	29.349	23.261
3307	29.670	23.880	3308	27.828	17.672	3309	27.849	18.192
3310	27.871	18.721	3311	27.893	19.259	3312	27.915	19.806
3313	27.937	20.362	3314	27.960	20.926	3315	28.201	17.654
3316	28.572	17.636	3317	28.940	17.618	3318	29.306	17.601
3319	29.670	17.583	3320	28.305	20.915	3321	28.662	21.481
3322	29.008	22.060	3323	29.344	22.652	3324	29.820	23.128
3325	28.218	18.175	3326	28.235	18.705	3327	28.252	19.244
3328	28.269	19.792	3329	28.287	20.349	3330	28.584	18.158
3331	28.948	18.141	3332	29.310	18.124	3333	29.670	18.107
3334	28.648	20.904	3335	28.999	21.472	3336	29.340	22.053
3337	29.670	22.647	3338	28.596	18.689	3339	28.609	19.229
3340	28.622	19.778	3341	28.635	20.337	3342	28.956	18.673
3343	29.314	18.656	3344	29.670	18.640	3345	28.990	20.893
3346	29.335	21.463	3347	29.670	22.046	3348	28.964	19.214
3349	28.973	19.764	3350	28.982	20.324	3351	29.318	19.199
3352	29.670	19.183	3353	29.331	20.882	3354	29.670	21.454
3355	29.322	19.750	3356	29.327	20.312	3357	29.670	19.736
3358	29.670	20.871	3359	29.670	20.299			

ELEMENT VERTICES (4(415))

1	1	2	3	2	2	5	3	3	2	4	5	4	4	8	5
5	4	7	8	6	7	12	8	7	7	11	12	8	11	18	12
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17	41	51	52	18	51	63	52	19	51	62	63	20	62	75	63
21	62	74	75	22	74	88	75	23	74	87	88	24	87	102	88
25	87	101	102	26	101	154	102	27	101	153	154	28	153	206	154
29	153	205	206	30	205	258	206	31	205	257	258	32	257	310	258
33	257	309	310	34	309	362	310	35	309	361	362	36	361	414	362
37	361	413	414	38	413	466	414	39	413	465	466	40	465	518	466
41	465	517	518	42	517	570	518	43	517	569	570	44	569	622	570
45	569	621	622	46	621	674	622	47	621	673	674	48	673	726	674
49	673	725	726	50	725	778	726	51	725	777	778	52	777	830	778

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ELEMENT ID ASSIGNMENTS: # OF CODES; ELEM.#,ID (12),8(215)

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ELEM ID DEFINIT.: ID, RECH(FT/D, - IS RECHARGE), VPRM(1/D), HDLEAK (I5,F10.0)
1 -0.0003 0.0000 0.00
2 -0.0003 0.0000 0.00
3 -0.0003 0.0000 0.00
4 -0.0003 0.0000 0.00
5 -0.0002 0.0000 0.00
6 -0.0002 0.0000 0.00
7 -0.0002 0.0000 0.00
8 -0.0002 0.0000 0.00
9 -0.0002 0.0000 0.00
10 -0.0002 0.0000 0.00
31 -0.00147 0.0000 0.00
33 -0.00115 0.0000 0.00
35 -0.0000 0.0000 0.00
65 -0.0120 0.0000 0.00
GS ARRAY: INP,SFCT (I2,F10.0); NODE,GROUND SURFACE ELEVATION (5(I5,F10.0))
1 1.0000
1 5129.4447 2 5140.7201 3 5127.1738 4 5142.5613 5 5127.4628
6 5127.8363 7 5146.9969 8 5129.4176 9 5128.1809 10 5126.1001
11 5149.0465 12 5146.0134 13 5129.8582 14 5128.0755 15 5127.7593

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16 5128.3173 17 5149.5409 18 5136.1113 19 5132.0060 20 5129.1152
21 5129.5118 22 5127.4042 23 5129.4233 24 5149.4295 25 5137.5508
26 5133.6523 27 5130.2817 28 5130.6920 29 5130.9855 30 5128.3482
31 5128.3110 32 5147.3604 33 5138.9418 34 5134.8354 35 5131.3708
36 5132.4126 37 5132.5294 38 5129.7477 39 5127.4007 40 5126.8978
41 5145.4277 42 5140.2176 43 5139.7340 44 5132.0192 45 5134.6688
46 5139.1257 47 5131.8738 48 5128.2196 49 5125.2732 50 5124.6316
51 5144.0722 52 5140.9371 53 5144.4277 54 5133.6414 55 5142.0246
56 5145.7745 57 5139.3132 58 5131.6952 59 5127.3056 60 5124.9845
61 5125.3871 62 5144.0027 63 5140.9668 64 5140.8888 65 5138.3786
66 5146.7521 67 5142.7706 68 5145.7494 69 5140.6834 70 5130.4015
71 5127.5075 72 5124.8194 73 5129.1586 74 5146.3063 75 5141.9699
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111 5129.4233 112 5128.2862 113 5127.9575 114 5128.2347 115 5128.8917
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121 5131.9723 122 5132.1816 123 5133.3349 124 5133.8261 125 5134.7322
126 5136.6558 127 5137.5922 128 5140.1378 129 5141.3690 130 5143.1901
131 5145.0101 132 5146.6565 133 5147.0012 134 5152.0882 135 5150.1761
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 3346 5205.7282 3347 5200.1882 3348 5224.9434 3349 5223.1982 3350 5217.0881
 3351 5226.0454 3352 5229.7503 3353 5210.9046 3354 5205.4543 3355 5223.0537
 3356 5216.6667 3357 5224.9144 3358 5211.7149 3359 5218.3934
 ZBED ARRAY: INP,SFCT (I2,F10.0); NODE, BEDROCK ELEVATION (5(I5,F10.0))
 1 1.0000
 1 5080.0613 2 5080.5223 3 5080.8140 4 5082.3097 5 5083.4592
 6 5083.9279 7 5083.6762 8 5083.4239 9 5083.1709 10 5083.5861
 11 5081.7525 12 5082.6807 13 5080.5572 14 5080.6219 15 5080.1033
 16 5076.1856 17 5078.0083 18 5078.8291 19 5075.2575 20 5076.4334
 21 5071.6757 22 5073.7695 23 5070.9392 24 5076.8517 25 5074.8233
 26 5072.9252 27 5070.9712 28 5068.7307 29 5068.1716 30 5069.1693
 31 5068.0597 32 5081.2807 33 5076.8411 34 5073.3741 35 5069.6959
 36 5069.0304 37 5067.0263 38 5066.9614 39 5067.3373 40 5066.7689
 41 5084.4025 42 5081.2007 43 5076.4314 44 5073.0688 45 5072.2090
 46 5067.8995 47 5066.9638 48 5066.7720 49 5068.7559 50 5067.4170
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 136 5114.4387 137 5116.6502 138 5118.7221 139 5119.3426 140 5118.2811
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 2476 5162.4933 2477 5158.8588 2478 5153.1160 2479 5146.9552 2480 5141.5785
 2481 5140.6505 2482 5141.3977 2483 5141.0923 2484 5139.9646 2485 5138.8242
 2486 5138.3307 2487 5138.6863 2488 5139.2850 2489 5132.9591 2490 5213.4900
 2491 5215.6100 2492 5219.9300 2493 5222.6100 2494 5224.7100 2495 5228.1000
 2496 5206.4600 2497 5232.3300 2498 5235.9800 2499 5239.5700 2500 5242.2300
 2501 5244.4600 2502 5249.4100 2503 5258.2600 2504 5263.8000 2505 5189.0800
 2506 5187.4600 2507 5185.8100 2508 5184.5100 2509 5183.2600 2510 5182.0400
 2511 5190.8300 2512 5129.0450 2513 5128.3733 2514 5136.5413 2515 5139.9851
 2516 5179.0200 2517 5181.0000 2518 5178.9900 2519 5134.9839 2520 5137.3788
 2521 5130.2821 2522 5132.4694 2523 5134.5502 2524 5134.4603 2525 5129.3613
 2526 5176.8200 2527 5175.4300 2528 5174.2200 2529 5172.5900 2530 5171.2340
 2531 5170.4044 2532 5169.2436 2533 5166.7902 2534 5163.0920 2535 5158.9381
 2536 5155.2093 2537 5148.7204 2538 5142.6239 2539 5140.2095 2540 5140.5581
 2541 5141.3642 2542 5141.3198 2543 5138.8612 2544 5138.0462 2545 5137.2482
 2546 5138.1740 2547 5136.8229 2548 5213.0300 2549 5217.4200 2550 5222.1400
 2551 5225.4700 2552 5228.6000 2553 5230.7000 2554 5234.2100 2555 5200.9900
 2556 5237.9600 2557 5242.4300 2558 5247.6700 2559 5251.2100 2560 5257.6700
 2561 5264.2400 2562 5267.9400 2563 5187.3300 2564 5185.4300 2565 5184.1200
 2566 5182.8600 2567 5181.7100 2568 5180.6000 2569 5179.5100 2570 5129.0642
 2571 5127.3254 2572 5135.5858 2573 5140.2390 2574 5177.6500 2575 5178.5800
 2576 5137.7141 2577 5131.7893 2578 5133.9916 2579 5134.3126 2580 5128.6953
 2581 5129.5672 2582 5128.1353 2583 5127.2052 2584 5176.1700 2585 5174.9800
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 2616 5255.4900 2617 5260.7500 2618 5265.0400 2619 5268.5500 2620 5185.9200
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 2631 5177.0500 2632 5138.0628 2633 5133.7694 2634 5134.0942 2635 5131.3683
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 2651 5139.5133 2652 5139.6090 2653 5141.1321 2654 5140.7127 2655 5138.3271
 2656 5134.8000 2657 5134.4440 2658 5134.1470 2659 5202.5700 2660 5211.5500
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 2671 5262.0000 2672 5264.7300 2673 5268.3700 2674 5185.2200 2675 5183.4500
 2676 5181.9200 2677 5180.4900 2678 5179.1100 2679 5177.9400 2680 5176.7800
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 2686 5134.0105 2687 5132.6010 2688 5128.7691 2689 5126.2577 2690 5175.6600
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 2696 5164.1162 2697 5160.1269 2698 5154.3408 2699 5147.8899 2700 5142.9574
 2701 5140.2804 2702 5138.1321 2703 5139.4795 2704 5140.7424 2705 5138.9218
 2706 5135.6000 2707 5135.3000 2708 5134.8000 2709 5200.5800 2710 5210.1300
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 2716 5240.2900 2717 5190.1200 2718 5246.5400 2719 5251.1300 2720 5256.9900
 2721 5259.6800 2722 5261.1200 2723 5265.4100 2724 5185.0100 2725 5183.0500
 2726 5181.2500 2727 5179.6400 2728 5178.1200 2729 5176.9000 2730 5131.3070
 2731 5122.5057 2732 5128.1125 2733 5135.9423 2734 5136.8779 2735 5134.0582
 2736 5131.5267 2737 5130.2413 2738 5128.1739 2739 5175.2178 2740 5173.4684
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 2746 5157.5909 2747 5151.2621 2748 5145.3367 2749 5142.0943 2750 5138.7037
 2751 5138.7842 2752 5139.1948 2753 5138.4413 2754 5136.8000 2755 5136.5000
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 2761 5232.2800 2762 5236.6700 2763 5239.5300 2764 5242.1100 2765 5189.4400
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 2776 5175.9061 2777 5131.9321 2778 5122.8209 2779 5124.1917 2780 5133.5870
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 2806 5222.9000 2807 5231.5800 2808 5235.8000 2809 5240.3500 2810 5244.9700
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 2906 5249.0300 2907 5249.3200 2908 5247.1800 2909 5179.2591 2910 5176.9083
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 2951 5244.2700 2952 5244.3400 2953 5177.0775 2954 5138.8020 2955 5133.4212
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 2976 5160.7289 2977 5155.9818 2978 5149.5480 2979 5143.6265 2980 5138.3300
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 2991 5228.0700 2992 5235.2400 2993 5239.2800 2994 5231.7800 2995 5242.0500
 2996 5243.9000 2997 5139.7694 2998 5136.7372 2999 5126.4523 3000 5125.5744
 3001 5126.2180 3002 5128.8612 3003 5118.6427 3004 5129.6106 3005 5125.5923
 3006 5117.5007 3007 5126.4758 3008 5122.2377 3009 5124.9433 3010 5123.4452
 3011 5124.4461 3012 5179.1053 3013 5176.4364 3014 5174.2582 3015 5173.1668
 3016 5171.5672 3017 5169.7655 3018 5168.4986 3019 5165.0347 3020 5159.5750
 3021 5153.7112 3022 5145.9821 3023 5141.5082 3024 5138.2800 3025 5182.5585
 3026 5187.6260 3027 5187.9752 3028 5188.2731 3029 5202.3400 3030 5206.2100
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 3056 5177.7765 3057 5174.0777 3058 5171.1401 3059 5169.4477 3060 5166.0199
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 3071 5204.0500 3072 5210.9600 3073 5223.4000 3074 5227.2200 3075 5216.0400
 3076 5230.8500 3077 5238.8100 3078 5244.1000 3079 5134.6350 3080 5136.3098
 3081 5129.8510 3082 5130.3232 3083 5125.1864 3084 5129.2142 3085 5118.3001
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 3096 5173.0661 3097 5170.0723 3098 5167.3559 3099 5163.4813 3100 5159.4137
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 3156 5131.9040 3157 5118.7380 3158 5120.1385 3159 5122.8287 3160 5118.6317
 3161 5126.2779 3162 5130.0848 3163 5130.3962 3164 5168.3392 3165 5168.4885
 3166 5168.7830 3167 5168.1438 3168 5164.3754 3169 5161.3247 3170 5159.2318
 3171 5156.0151 3172 5152.1009 3173 5149.3131 3174 5144.6337 3175 5139.2400
 3176 5138.5268 3177 5170.5973 3178 5174.9737 3179 5178.9761 3180 5182.3243
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 3196 5133.2899 3197 5170.4622 3198 5170.8010 3199 5171.2093 3200 5170.9158
 3201 5168.0945 3202 5162.8947 3203 5158.5848 3204 5154.6771 3205 5151.1472

3206 5149.2092 3207 5145.6225 3208 5142.0445 3209 5173.3650 3210 5178.6187
 3211 5183.3279 3212 5190.2967 3213 5202.8649 3214 5235.0442 3215 5225.3342
 3216 5221.1803 3217 5212.9791 3218 5147.1722 3219 5140.8298 3220 5146.3745
 3221 5130.0300 3222 5143.0600 3223 5122.5198 3224 5131.8200 3225 5125.9656
 3226 5137.1301 3227 5131.6594 3228 5173.9652 3229 5174.6218 3230 5174.8148
 3231 5174.2325 3232 5172.1274 3233 5167.8794 3234 5163.1052 3235 5159.0304
 3236 5155.6857 3237 5151.6508 3238 5149.0562 3239 5179.5748 3240 5184.6707
 3241 5193.3338 3242 5200.6889 3243 5210.7149 3244 5231.1322 3245 5223.8048
 3246 5219.3462 3247 5149.8390 3248 5148.5210 3249 5153.0100 3250 5145.3800
 3251 5150.0800 3252 5133.7600 3253 5147.1000 3254 5135.6000 3255 5137.7149
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 3261 5175.6782 3262 5172.5909 3263 5167.1320 3264 5162.0877 3265 5157.9064
 3266 5152.8467 3267 5186.3117 3268 5193.9428 3269 5199.8707 3270 5209.0741
 3271 5217.3953 3272 5228.1720 3273 5223.1565 3274 5155.8475 3275 5153.1500
 3276 5157.0039 3277 5151.1600 3278 5152.9922 3279 5148.8200 3280 5154.6253
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 3296 5215.3882 3297 5221.5977 3298 5224.9284 3299 5163.7973 3300 5160.2872
 3301 5167.6136 3302 5161.4204 3303 5169.3927 3304 5159.9306 3305 5166.0881
 3306 5168.9176 3307 5165.0062 3308 5192.3642 3309 5190.1012 3310 5187.1263
 3311 5183.7950 3312 5179.8619 3313 5174.8588 3314 5169.5548 3315 5199.7950
 3316 5206.7900 3317 5213.2964 3318 5220.4677 3319 5222.2765 3320 5173.8276
 3321 5175.3582 3322 5172.1788 3323 5174.9068 3324 5177.6147 3325 5197.9694
 3326 5195.7525 3327 5191.9717 3328 5186.8146 3329 5180.1582 3330 5205.3070
 3331 5211.0751 3332 5218.4727 3333 5219.8086 3334 5181.8609 3335 5178.1015
 3336 5180.0722 3337 5177.4881 3338 5203.5633 3339 5200.1796 3340 5196.2907
 3341 5189.7805 3342 5208.8253 3343 5216.2014 3344 5217.4568 3345 5184.9544
 3346 5186.5548 3347 5182.2767 3348 5205.2564 3349 5199.6137 3350 5193.0807
 3351 5213.4518 3352 5214.5486 3353 5195.1027 3354 5189.3706 3355 5208.2324
 3356 5202.4761 3357 5210.3834 3358 5199.0197 3359 5205.7303

ZBASE ARRAY: INP,SFCT (I2,F10.0); NODE,AQUIFER BASE ELEVATION (5(I5,F10.0))

1 1.0000
 1 5079.06 2 5079.52 3 5079.81 4 5081.31 5 5082.46
 6 5082.93 7 5082.68 8 5082.42 9 5082.17 10 5082.47
 11 5080.75 12 5081.68 13 5079.56 14 5079.62 15 5079.10
 16 5075.19 17 5077.01 18 5077.83 19 5073.79 20 5075.43
 21 5070.68 22 5072.77 23 5069.94 24 5075.85 25 5073.82
 26 5071.03 27 5068.78 28 5067.23 29 5067.17 30 5068.17
 31 5067.06 32 5080.28 33 5075.84 34 5072.37 35 5068.30
 36 5067.53 37 5066.03 38 5065.96 39 5066.34 40 5065.77
 41 5083.40 42 5080.20 43 5075.43 44 5072.07 45 5071.21
 46 5066.90 47 5065.96 48 5065.77 49 5067.76 50 5066.42
 51 5086.68 52 5083.21 53 5078.72 54 5077.00 55 5075.12
 56 5070.39 57 5067.74 58 5066.34 59 5066.02 60 5068.93
 61 5068.90 62 5088.76 63 5086.52 64 5084.89 65 5082.09
 66 5079.91 67 5074.15 68 5071.24 69 5068.68 70 5066.77
 71 5067.40 72 5069.49 73 5068.42 74 5090.57 75 5088.79
 76 5088.57 77 5086.70 78 5085.86 79 5078.66 80 5074.50
 81 5071.77 82 5069.98 83 5071.01 84 5069.65 85 5071.09
 86 5068.90 87 5094.01 88 5092.09 89 5090.97 90 5093.01
 91 5097.24 92 5086.21 93 5079.24 94 5075.30 95 5073.32
 96 5074.87 97 5078.79 98 5074.11 99 5071.00 100 5072.71
 101 5095.89 102 5096.91 103 5095.60 104 5097.89 105 5073.10
 106 5074.55 107 5076.69 108 5079.43 109 5080.92 110 5081.89
 111 5083.55 112 5083.56 113 5084.23 114 5083.99 115 5070.91
 116 5071.25 117 5072.20 118 5072.56 119 5073.22 120 5073.52
 121 5075.48 122 5077.18 123 5082.31 124 5082.57 125 5081.21
 126 5083.41 127 5084.30 128 5086.67 129 5088.07 130 5090.97
 131 5092.43 132 5093.22 133 5093.16 134 5105.07 135 5105.64
 136 5105.71 137 5105.31 138 5104.04 139 5101.97 140 5100.36
 141 5099.99 142 5099.95 143 5103.28 144 5097.94 145 5089.22
 146 5080.73 147 5076.94 148 5080.59 149 5086.13 150 5085.64
 151 5075.28 152 5070.12 153 5097.67 154 5100.18 155 5099.00
 156 5100.53 157 5074.14 158 5074.08 159 5075.86 160 5069.60
 161 5071.21 162 5070.74 163 5084.86 164 5071.77 165 5073.06
 166 5072.65 167 5075.40 168 5075.16 169 5075.51 170 5074.21
 171 5076.20 172 5077.15 173 5077.11 174 5080.58 175 5071.71
 176 5087.22 177 5087.99 178 5086.56 179 5086.57 180 5088.24
 181 5090.37 182 5092.48 183 5093.81 184 5093.98 185 5105.23
 186 5106.02 187 5106.26 188 5105.58 189 5104.16 190 5101.96
 191 5100.33 192 5099.91 193 5099.98 194 5104.59 195 5101.87
 196 5099.44 197 5091.03 198 5085.74 199 5083.93 200 5087.87
 201 5091.24 202 5088.56 203 5079.24 204 5078.96 205 5098.46
 206 5102.85 207 5103.14 208 5102.45 209 5080.70 210 5080.47
 211 5080.98 212 5076.78 213 5082.18 214 5083.21 215 5085.47
 216 5087.71 217 5087.89 218 5075.84 219 5079.34 220 5088.43
 221 5092.00 222 5092.78 223 5093.77 224 5094.21 225 5095.87
 226 5096.43 227 5087.89 228 5088.86 229 5089.71 230 5088.89
 231 5088.61 232 5089.15 233 5090.36 234 5092.58 235 5093.72
 236 5105.99 237 5106.61 238 5106.56 239 5105.67 240 5103.73
 241 5101.56 242 5100.12 243 5099.78 244 5100.15 245 5106.09

246	5105.68	247	5105.36	248	5104.00	249	5097.62	250	5095.10
251	5092.93	252	5092.55	253	5094.05	254	5079.34	255	5075.74
256	5086.41	257	5100.80	258	5105.14	259	5095.91	260	5106.63
261	5078.32	262	5076.96	263	5077.42	264	5086.01	265	5084.71
266	5086.64	267	5088.32	268	5090.94	269	5094.38	270	5094.47
271	5081.18	272	5082.95	273	5095.82	274	5096.19	275	5097.30
276	5098.34	277	5099.48	278	5100.89	279	5101.05	280	5102.44
281	5101.80	282	5100.88	283	5101.02	284	5102.16	285	5105.09
286	5105.88	287	5106.46	288	5107.21	289	5107.17	290	5106.21
291	5103.91	292	5101.07	293	5099.86	294	5099.63	295	5100.33
296	5099.00	297	5107.93	298	5107.65	299	5106.64	300	5105.20
301	5103.76	302	5100.32	303	5097.06	304	5093.02	305	5095.35
306	5094.91	307	5095.02	308	5095.15	309	5104.05	310	5108.10
311	5097.55	312	5098.78	313	5094.76	314	5094.89	315	5095.11
316	5095.72	317	5095.56	318	5095.91	319	5088.75	320	5092.32
321	5096.67	322	5097.14	323	5083.17	324	5086.65	325	5098.90
326	5099.99	327	5099.92	328	5100.94	329	5101.83	330	5102.62
331	5092.66	332	5092.05	333	5092.61	334	5090.42	335	5090.60
336	5105.57	337	5106.02	338	5107.34	339	5107.08	340	5107.64
341	5106.58	342	5104.06	343	5100.99	344	5099.63	345	5099.52
346	5100.68	347	5102.24	348	5111.36	349	5110.72	350	5110.10
351	5107.68	352	5107.90	353	5106.11	354	5103.64	355	5099.13
356	5095.32	357	5094.72	358	5094.99	359	5095.79	360	5094.64
361	5108.01	362	5110.94	363	5100.04	364	5102.52	365	5095.86
366	5098.03	367	5098.06	368	5098.07	369	5098.58	370	5098.21
371	5098.69	372	5098.72	373	5099.24	374	5098.97	375	5086.93
376	5100.74	377	5101.66	378	5101.78	379	5101.86	380	5102.98
381	5102.91	382	5092.73	383	5094.08	384	5093.35	385	5091.79
386	5103.75	387	5106.49	388	5107.07	389	5107.33	390	5107.31
391	5108.57	392	5107.36	393	5104.15	394	5100.69	395	5099.34
396	5099.59	397	5101.13	398	5102.40	399	5109.13	400	5115.31
401	5114.62	402	5114.04	403	5112.88	404	5111.33	405	5108.93
406	5106.36	407	5102.09	408	5101.86	409	5102.38	410	5101.76
411	5101.82	412	5101.72	413	5112.42	414	5112.57	415	5112.88
416	5101.36	417	5100.58	418	5101.34	419	5101.29	420	5101.17
421	5101.15	422	5101.29	423	5101.15	424	5101.73	425	5101.74
426	5101.68	427	5102.29	428	5092.46	429	5102.96	430	5103.84
431	5104.31	432	5094.09	433	5095.01	434	5094.93	435	5093.44
436	5093.12	437	5106.85	438	5107.48	439	5107.67	440	5107.59
441	5107.77	442	5108.47	443	5107.81	444	5104.40	445	5100.44
446	5099.05	447	5099.66	448	5101.76	449	5100.24	450	5108.01
451	5112.73	452	5118.52	453	5118.96	454	5118.88	455	5117.49
456	5114.63	457	5111.72	458	5107.95	459	5107.63	460	5106.87
461	5106.53	462	5105.98	463	5105.72	464	5105.57	465	5114.41
466	5114.19	467	5114.00	468	5100.89	469	5105.22	470	5105.01
471	5105.09	472	5104.15	473	5104.09	474	5103.66	475	5103.79
476	5104.24	477	5104.21	478	5104.74	479	5105.23	480	5105.14
481	5105.13	482	5105.75	483	5095.46	484	5095.29	485	5094.21
486	5092.95	487	5107.57	488	5108.08	489	5108.66	490	5108.73
491	5108.19	492	5108.19	493	5109.26	494	5108.90	495	5104.53
496	5100.01	497	5098.83	498	5099.92	499	5102.35	500	5101.23
501	5102.88	502	5112.72	503	5116.12	504	5122.62	505	5123.02
506	5122.38	507	5121.96	508	5120.30	509	5114.05	510	5113.23
511	5111.95	512	5112.04	513	5110.47	514	5110.35	515	5108.43
516	5107.79	517	5116.35	518	5115.45	519	5114.85	520	5096.42
521	5109.88	522	5106.74	523	5110.30	524	5107.53	525	5107.88
526	5105.83	527	5106.51	528	5107.31	529	5106.73	530	5107.10
531	5107.32	532	5107.20	533	5107.58	534	5107.12	535	5096.76
536	5094.01	537	5093.98	538	5108.62	539	5108.63	540	5109.54
541	5109.62	542	5109.25	543	5110.53	544	5111.47	545	5109.75
546	5105.37	547	5099.77	548	5098.82	549	5100.14	550	5103.10
551	5114.00	552	5116.04	553	5115.97	554	5114.09	555	5124.48
556	5124.91	557	5125.41	558	5125.40	559	5124.18	560	5122.85
561	5121.56	562	5120.33	563	5118.83	564	5118.14	565	5117.01
566	5115.64	567	5114.05	568	5113.20	569	5117.98	570	5116.17
571	5115.66	572	5103.84	573	5112.08	574	5115.33	575	5113.96
576	5113.70	577	5112.13	578	5110.05	579	5108.53	580	5109.29
581	5109.43	582	5109.48	583	5109.15	584	5109.15	585	5108.39
586	5108.70	587	5095.57	588	5095.20	589	5109.37	590	5109.96
591	5110.47	592	5110.85	593	5110.14	594	5112.60	595	5112.67
596	5111.20	597	5106.07	598	5099.54	599	5099.05	600	5101.08
601	5103.85	602	5107.00	603	5108.09	604	5115.62	605	5124.84
606	5126.26	607	5127.22	608	5127.59	609	5128.49	610	5128.28
611	5126.93	612	5126.48	613	5126.74	614	5126.94	615	5126.46
616	5125.68	617	5122.72	618	5121.53	619	5119.29	620	5118.72
621	5118.64	622	5117.50	623	5108.00	624	5103.40	625	5117.99
626	5121.12	627	5120.62	628	5120.04	629	5115.73	630	5114.63
631	5114.18	632	5114.18	633	5113.49	634	5113.37	635	5112.38
636	5110.79	637	5110.26	638	5110.08	639	5099.06	640	5110.56
641	5111.59	642	5111.33	643	5112.22	644	5113.87	645	5114.15
646	5113.96	647	5112.19	648	5106.19	649	5099.75	650	5099.31
651	5101.80	652	5105.10	653	5105.75	654	5106.15	655	5110.00

656	5120.77	657	5129.62	658	5130.74	659	5131.70	660	5133.03
661	5134.94	662	5132.48	663	5132.13	664	5130.51	665	5131.21
666	5130.11	667	5130.40	668	5130.46	669	5129.87	670	5130.12
671	5129.31	672	5128.72	673	5122.54	674	5118.00	675	5110.00
676	5102.51	677	5128.00	678	5127.13	679	5126.20	680	5123.13
681	5119.88	682	5118.15	683	5118.72	684	5116.60	685	5114.90
686	5115.13	687	5114.90	688	5112.04	689	5112.89	690	5101.90
691	5112.34	692	5112.77	693	5112.72	694	5113.26	695	5114.80
696	5115.68	697	5115.13	698	5113.20	699	5106.36	700	5100.04
701	5099.76	702	5102.69	703	5105.72	704	5119.50	705	5107.40
706	5115.00	707	5117.13	708	5131.55	709	5132.76	710	5134.63
711	5137.55	712	5138.90	713	5139.07	714	5139.71	715	5138.59
716	5136.39	717	5135.72	718	5134.00	719	5133.11	720	5132.90
721	5132.56	722	5131.78	723	5131.95	724	5130.82	725	5126.31
726	5117.00	727	5119.00	728	5103.00	729	5130.65	730	5130.08
731	5128.75	732	5127.53	733	5125.03	734	5124.64	735	5119.83
736	5120.50	737	5118.42	738	5121.75	739	5118.80	740	5117.95
741	5105.96	742	5116.51	743	5115.06	744	5115.75	745	5114.91
746	5116.37	747	5116.41	748	5116.75	749	5114.64	750	5106.76
751	5101.19	752	5101.02	753	5103.84	754	5106.73	755	5122.64
756	5114.00	757	5118.00	758	5116.00	759	5119.13	760	5134.63
761	5136.33	762	5138.97	763	5141.94	764	5142.27	765	5141.54
766	5140.92	767	5139.48	768	5137.95	769	5137.56	770	5135.98
771	5134.68	772	5134.03	773	5133.59	774	5133.07	775	5132.63
776	5132.25	777	5128.69	778	5111.00	779	5120.74	780	5116.00
781	5131.84	782	5131.50	783	5130.67	784	5128.92	785	5128.19
786	5125.28	787	5124.35	788	5122.14	789	5124.18	790	5120.71
791	5120.34	792	5109.20	793	5118.75	794	5117.76	795	5117.45
796	5116.34	797	5117.70	798	5118.44	799	5117.86	800	5116.06
801	5109.05	802	5101.27	803	5102.68	804	5105.38	805	5107.40
806	5125.03	807	5107.00	808	5115.00	809	5121.00	810	5119.75
811	5125.34	812	5139.92	813	5140.70	814	5143.47	815	5143.38
816	5143.03	817	5142.61	818	5141.44	819	5139.56	820	5138.60
821	5138.02	822	5136.79	823	5135.68	824	5134.86	825	5134.08
826	5133.94	827	5133.39	828	5132.96	829	5115.00	830	5113.00
831	5128.60	832	5130.64	833	5132.86	834	5132.72	835	5131.82
836	5132.16	837	5130.36	838	5129.82	839	5126.40	840	5127.69
841	5127.51	842	5125.61	843	5125.33	844	5122.89	845	5122.30
846	5120.27	847	5119.67	848	5119.77	849	5119.54	850	5120.23
851	5117.86	852	5109.75	853	5104.14	854	5103.63	855	5106.99
856	5109.07	857	5128.64	858	5123.10	859	5113.00	860	5120.00
861	5118.00	862	5124.71	863	5131.05	864	5144.99	865	5144.25
866	5143.91	867	5143.88	868	5143.67	869	5143.08	870	5141.29
871	5139.66	872	5138.77	873	5138.29	874	5136.98	875	5136.24
876	5135.84	877	5135.20	878	5134.59	879	5134.33	880	5134.04
881	5110.00	882	5120.00	883	5136.74	884	5137.00	885	5133.63
886	5133.40	887	5133.09	888	5132.55	889	5131.76	890	5128.58
891	5127.30	892	5129.45	893	5128.23	894	5127.49	895	5126.15
896	5124.15	897	5123.62	898	5121.70	899	5122.42	900	5122.13
901	5121.51	902	5119.19	903	5112.63	904	5105.94	905	5105.28
906	5108.27	907	5110.30	908	5133.00	909	5129.00	910	5120.00
911	5120.00	912	5115.00	913	5122.50	914	5131.31	915	5141.40
916	5146.33	917	5144.72	918	5144.34	919	5144.25	920	5144.18
921	5142.39	922	5140.92	923	5139.46	924	5138.76	925	5137.94
926	5137.53	927	5136.94	928	5136.35	929	5135.70	930	5135.36
931	5135.09	932	5134.42	933	5113.00	934	5124.08	935	5130.00
936	5138.00	937	5134.37	938	5133.99	939	5133.66	940	5133.00
941	5132.96	942	5132.00	943	5131.51	944	5130.79	945	5129.80
946	5129.30	947	5127.76	948	5126.59	949	5124.92	950	5124.08
951	5124.44	952	5123.30	953	5122.01	954	5115.10	955	5107.09
956	5109.88	957	5110.59	958	5111.56	959	5124.00	960	5136.00
961	5131.00	962	5125.00	963	5126.00	964	5121.00	965	5122.94
966	5128.72	967	5133.21	968	5141.80	969	5146.25	970	5145.54
971	5144.99	972	5144.82	973	5144.16	974	5142.17	975	5140.26
976	5139.02	977	5138.79	978	5138.16	979	5137.84	980	5137.37
981	5137.29	982	5136.72	983	5136.46	984	5135.85	985	5135.62
986	5129.00	987	5129.05	988	5135.18	989	5135.26	990	5134.77
991	5134.31	992	5133.87	993	5133.41	994	5132.53	995	5132.36
996	5131.44	997	5130.81	998	5130.67	999	5129.26	1000	5128.13
1001	5127.13	1002	5126.43	1003	5125.31	1004	5122.48	1005	5118.80
1006	5112.48	1007	5111.13	1008	5112.53	1009	5112.74	1010	5127.00
1011	5130.38	1012	5144.00	1013	5133.00	1014	5130.00	1015	5132.00
1016	5130.00	1017	5127.24	1018	5129.16	1019	5131.44	1020	5136.85
1021	5140.45	1022	5144.47	1023	5146.06	1024	5144.87	1025	5144.79
1026	5143.73	1027	5141.63	1028	5139.56	1029	5139.10	1030	5138.42
1031	5138.67	1032	5138.78	1033	5138.85	1034	5138.03	1035	5137.53
1036	5137.00	1037	5136.59	1038	5136.44	1039	5133.47	1040	5133.62
1041	5135.78	1042	5135.53	1043	5134.96	1044	5134.91	1045	5134.08
1046	5133.63	1047	5133.00	1048	5132.34	1049	5131.77	1050	5131.02
1051	5129.92	1052	5129.19	1053	5128.46	1054	5127.42	1055	5125.64
1056	5121.28	1057	5116.30	1058	5112.49	1059	5114.95	1060	5114.75
1061	5130.00	1062	5135.00	1063	5142.00	1064	5148.00	1065	5141.00

1066	5130.00	1067	5134.00	1068	5136.00	1069	5130.00	1070	5131.41
1071	5130.63	1072	5133.10	1073	5138.91	1074	5139.15	1075	5144.60
1076	5145.50	1077	5145.29	1078	5145.15	1079	5144.10	1080	5141.80
1081	5139.45	1082	5139.88	1083	5139.31	1084	5139.55	1085	5139.80
1086	5139.52	1087	5138.78	1088	5138.45	1089	5137.92	1090	5137.88
1091	5137.18	1092	5147.00	1093	5136.75	1094	5136.07	1095	5135.91
1096	5135.42	1097	5134.52	1098	5134.57	1099	5133.79	1100	5132.97
1101	5132.57	1102	5131.78	1103	5130.99	1104	5129.94	1105	5128.59
1106	5126.82	1107	5123.56	1108	5121.41	1109	5118.30	1110	5116.65
1111	5116.50	1112	5134.00	1113	5138.00	1114	5145.00	1115	5150.00
1116	5138.00	1117	5141.00	1118	5149.00	1119	5147.00	1120	5137.00
1121	5131.00	1122	5137.00	1123	5136.00	1124	5133.01	1125	5132.46
1126	5131.67	1127	5132.79	1128	5135.97	1129	5139.48	1130	5144.49
1131	5145.38	1132	5145.82	1133	5145.07	1134	5143.81	1135	5141.76
1136	5139.77	1137	5140.15	1138	5140.04	1139	5140.96	1140	5140.98
1141	5140.43	1142	5139.77	1143	5138.83	1144	5138.65	1145	5138.36
1146	5137.84	1147	5137.80	1148	5137.31	1149	5137.36	1150	5136.32
1151	5135.60	1152	5134.83	1153	5134.24	1154	5133.33	1155	5132.92
1156	5132.20	1157	5131.13	1158	5130.68	1159	5128.76	1160	5127.39
1161	5123.44	1162	5120.79	1163	5118.77	1164	5117.51	1165	5142.00
1166	5149.00	1167	5153.00	1168	5149.00	1169	5146.00	1170	5150.00
1171	5148.00	1172	5146.00	1173	5132.00	1174	5138.00	1175	5140.77
1176	5136.00	1177	5134.43	1178	5134.33	1179	5132.47	1180	5135.06
1181	5136.77	1182	5139.68	1183	5145.42	1184	5146.69	1185	5145.85
1186	5144.95	1187	5143.88	1188	5141.35	1189	5140.17	1190	5140.56
1191	5141.16	1192	5141.65	1193	5141.54	1194	5141.20	1195	5140.19
1196	5139.76	1197	5139.51	1198	5138.91	1199	5138.64	1200	5138.16
1201	5138.25	1202	5137.70	1203	5137.18	1204	5136.13	1205	5135.77
1206	5134.70	1207	5133.74	1208	5132.44	1209	5131.88	1210	5130.94
1211	5130.15	1212	5128.22	1213	5126.46	1214	5122.92	1215	5121.77
1216	5119.38	1217	5153.00	1218	5155.00	1219	5148.00	1220	5146.00
1221	5157.00	1222	5159.00	1223	5147.00	1224	5143.00	1225	5130.87
1226	5142.19	1227	5141.65	1228	5136.00	1229	5133.81	1230	5134.23
1231	5136.99	1232	5137.56	1233	5135.83	1234	5139.15	1235	5147.10
1236	5146.73	1237	5145.83	1238	5144.83	1239	5143.25	1240	5141.64
1241	5140.61	1242	5141.17	1243	5142.49	1244	5142.65	1245	5142.62
1246	5142.04	1247	5140.95	1248	5140.44	1249	5139.80	1250	5139.62
1251	5139.50	1252	5139.31	1253	5139.28	1254	5138.43	1255	5137.72
1256	5136.52	1257	5136.12	1258	5134.98	1259	5132.91	1260	5132.51
1261	5131.92	1262	5131.28	1263	5130.06	1264	5128.89	1265	5126.50
1266	5123.58	1267	5120.53	1268	5158.00	1269	5149.00	1270	5146.00
1271	5143.00	1272	5163.00	1273	5164.00	1274	5145.00	1275	5138.44
1276	5137.30	1277	5143.36	1278	5144.00	1279	5138.26	1280	5136.81
1281	5138.13	1282	5138.82	1283	5140.69	1284	5136.62	1285	5141.47
1286	5147.67	1287	5146.85	1288	5145.81	1289	5144.67	1290	5143.08
1291	5142.16	1292	5142.11	1293	5142.60	1294	5143.03	1295	5143.39
1296	5143.44	1297	5142.66	1298	5142.06	1299	5141.17	1300	5140.40
1301	5140.10	1302	5139.98	1303	5139.96	1304	5139.57	1305	5139.55
1306	5138.52	1307	5137.43	1308	5136.10	1309	5133.14	1310	5132.81
1311	5132.39	1312	5131.65	1313	5130.88	1314	5129.82	1315	5128.39
1316	5124.12	1317	5121.42	1318	5160.00	1319	5149.00	1320	5146.00
1321	5142.00	1322	5162.00	1323	5175.00	1324	5146.00	1325	5133.84
1326	5142.22	1327	5144.63	1328	5143.00	1329	5139.71	1330	5136.22
1331	5133.73	1332	5137.48	1333	5139.15	1334	5139.36	1335	5144.31
1336	5147.76	1337	5146.85	1338	5145.77	1339	5144.60	1340	5143.90
1341	5142.57	1342	5143.38	1343	5143.71	1344	5143.85	1345	5143.99
1346	5143.79	1347	5143.13	1348	5142.47	1349	5141.66	1350	5141.05
1351	5140.57	1352	5140.38	1353	5140.19	1354	5139.93	1355	5139.74
1356	5139.32	1357	5137.25	1358	5133.79	1359	5133.43	1360	5132.98
1361	5132.36	1362	5131.47	1363	5131.47	1364	5129.79	1365	5125.58
1366	5122.55	1367	5153.00	1368	5152.00	1369	5147.00	1370	5147.00
1371	5156.00	1372	5167.00	1373	5177.00	1374	5141.31	1375	5135.35
1376	5146.04	1377	5145.57	1378	5145.49	1379	5141.77	1380	5135.49
1381	5133.26	1382	5138.28	1383	5135.23	1384	5140.40	1385	5143.27
1386	5148.21	1387	5146.85	1388	5145.51	1389	5144.50	1390	5143.85
1391	5143.70	1392	5143.94	1393	5144.13	1394	5144.38	1395	5144.49
1396	5144.18	1397	5143.58	1398	5142.36	1399	5141.62	1400	5141.18
1401	5140.83	1402	5140.59	1403	5140.35	1404	5140.10	1405	5139.78
1406	5138.77	1407	5135.15	1408	5133.86	1409	5133.56	1410	5132.57
1411	5131.72	1412	5131.69	1413	5130.06	1414	5126.84	1415	5123.22
1416	5153.00	1417	5152.00	1418	5149.00	1419	5151.00	1420	5156.00
1421	5164.00	1422	5171.00	1423	5182.00	1424	5136.85	1425	5139.95
1426	5148.09	1427	5147.00	1428	5146.71	1429	5142.33	1430	5135.70
1431	5134.44	1432	5139.11	1433	5140.55	1434	5141.51	1435	5142.38
1436	5148.21	1437	5147.08	1438	5145.82	1439	5144.69	1440	5144.16
1441	5144.41	1442	5144.32	1443	5144.36	1444	5144.47	1445	5144.58
1446	5144.46	1447	5143.57	1448	5142.67	1449	5141.76	1450	5141.18
1451	5140.81	1452	5140.61	1453	5140.46	1454	5140.20	1455	5139.78
1456	5135.63	1457	5134.41	1458	5133.95	1459	5133.06	1460	5132.01
1461	5131.68	1462	5130.16	1463	5127.04	1464	5123.92	1465	5155.00
1466	5158.00	1467	5153.00	1468	5154.00	1469	5145.60	1470	5163.00
1471	5169.00	1472	5175.00	1473	5174.00	1474	5138.18	1475	5144.55

1476	5149.00	1477	5149.96	1478	5148.25	1479	5143.07	1480	5135.49
1481	5135.70	1482	5140.96	1483	5142.28	1484	5141.31	1485	5140.43
1486	5148.28	1487	5146.75	1488	5145.72	1489	5144.90	1490	5144.52
1491	5144.45	1492	5144.43	1493	5144.45	1494	5144.55	1495	5144.58
1496	5144.29	1497	5143.53	1498	5142.32	1499	5141.57	1500	5141.13
1501	5140.65	1502	5140.41	1503	5140.16	1504	5139.54	1505	5136.69
1506	5134.92	1507	5134.36	1508	5133.31	1509	5132.12	1510	5131.61
1511	5130.31	1512	5127.94	1513	5124.31	1514	5156.00	1515	5156.00
1516	5159.00	1517	5159.62	1518	5160.00	1519	5141.47	1520	5166.00
1521	5170.00	1522	5166.00	1523	5185.00	1524	5138.83	1525	5147.00
1526	5149.52	1527	5150.35	1528	5147.98	1529	5143.86	1530	5136.96
1531	5137.70	1532	5143.65	1533	5142.03	1534	5141.08	1535	5140.26
1536	5148.24	1537	5146.85	1538	5145.66	1539	5144.92	1540	5144.57
1541	5144.41	1542	5144.37	1543	5144.43	1544	5144.56	1545	5144.63
1546	5144.17	1547	5143.27	1548	5142.30	1549	5141.42	1550	5140.78
1551	5139.49	1552	5139.26	1553	5139.18	1554	5137.25	1555	5134.99
1556	5134.58	1557	5133.74	1558	5132.49	1559	5131.66	1560	5130.43
1561	5128.38	1562	5125.30	1563	5156.00	1564	5156.00	1565	5157.00
1566	5164.00	1567	5158.00	1568	5155.77	1569	5138.57	1570	5165.00
1571	5167.00	1572	5182.00	1573	5179.00	1574	5147.35	1575	5145.00
1576	5149.87	1577	5151.22	1578	5151.11	1579	5148.32	1580	5143.35
1581	5137.94	1582	5139.63	1583	5143.01	1584	5141.67	1585	5140.72
1586	5149.14	1587	5147.79	1588	5146.62	1589	5145.58	1590	5144.86
1591	5144.52	1592	5144.35	1593	5144.25	1594	5144.40	1595	5144.54
1596	5144.44	1597	5143.95	1598	5143.08	1599	5142.14	1600	5141.29
1601	5139.92	1602	5139.02	1603	5138.70	1604	5137.21	1605	5135.13
1606	5134.58	1607	5133.99	1608	5132.55	1609	5131.82	1610	5130.64
1611	5128.52	1612	5126.11	1613	5165.54	1614	5157.00	1615	5159.00
1616	5165.00	1617	5163.00	1618	5161.00	1619	5140.19	1620	5164.00
1621	5182.00	1622	5177.00	1623	5179.00	1624	5159.80	1625	5141.92
1626	5154.85	1627	5155.31	1628	5151.87	1629	5151.69	1630	5150.45
1631	5147.33	1632	5143.78	1633	5138.65	1634	5144.54	1635	5142.71
1636	5141.27	1637	5140.48	1638	5149.09	1639	5147.62	1640	5146.46
1641	5145.44	1642	5144.71	1643	5144.41	1644	5144.20	1645	5144.12
1646	5144.41	1647	5144.47	1648	5144.10	1649	5143.35	1650	5142.87
1651	5141.58	1652	5140.29	1653	5139.07	1654	5138.70	1655	5137.18
1656	5135.09	1657	5134.47	1658	5134.22	1659	5132.97	1660	5131.90
1661	5130.88	1662	5129.65	1663	5126.51	1664	5161.00	1665	5170.53
1666	5161.00	1667	5165.00	1668	5163.00	1669	5163.00	1670	5163.00
1671	5152.00	1672	5177.00	1673	5174.00	1674	5176.00	1675	5176.00
1676	5159.00	1677	5144.87	1678	5150.15	1679	5154.00	1680	5156.23
1681	5150.68	1682	5151.26	1683	5150.41	1684	5136.45	1685	5143.21
1686	5141.17	1687	5143.96	1688	5142.06	1689	5140.89	1690	5150.16
1691	5148.56	1692	5147.27	1693	5145.94	1694	5144.96	1695	5144.50
1696	5144.22	1697	5143.87	1698	5143.99	1699	5144.31	1700	5143.99
1701	5143.19	1702	5142.63	1703	5141.85	1704	5140.85	1705	5139.18
1706	5138.56	1707	5136.83	1708	5134.89	1709	5134.26	1710	5134.08
1711	5133.13	1712	5132.20	1713	5131.13	1714	5130.10	1715	5127.50
1716	5158.00	1717	5160.00	1718	5165.00	1719	5163.00	1720	5163.00
1721	5177.00	1722	5163.14	1723	5157.46	1724	5171.00	1725	5177.00
1726	5177.00	1727	5173.00	1728	5154.00	1729	5154.00	1730	5156.00
1731	5160.00	1732	5157.00	1733	5154.00	1734	5156.00	1735	5154.94
1736	5151.33	1737	5151.29	1738	5148.37	1739	5146.61	1740	5142.60
1741	5145.65	1742	5143.53	1743	5141.60	1744	5151.11	1745	5149.65
1746	5148.13	1747	5146.73	1748	5145.48	1749	5144.60	1750	5144.32
1751	5143.85	1752	5143.17	1753	5143.21	1754	5143.29	1755	5143.14
1756	5142.39	1757	5141.98	1758	5140.95	1759	5139.88	1760	5138.87
1761	5136.75	1762	5134.60	1763	5133.98	1764	5134.07	1765	5133.37
1766	5132.47	1767	5131.62	1768	5130.21	1769	5128.34	1770	5158.00
1771	5163.72	1772	5163.00	1773	5160.00	1774	5173.00	1775	5170.00
1776	5156.86	1777	5181.00	1778	5177.00	1779	5171.00	1780	5177.00
1781	5154.62	1782	5154.00	1783	5159.00	1784	5153.00	1785	5157.63
1786	5182.00	1787	5183.00	1788	5183.00	1789	5182.00	1790	5181.00
1791	5181.00	1792	5166.52	1793	5152.40	1794	5153.29	1795	5150.03
1796	5147.42	1797	5141.96	1798	5142.93	1799	5145.24	1800	5149.38
1801	5151.23	1802	5150.96	1803	5148.99	1804	5147.32	1805	5145.87
1806	5144.73	1807	5144.36	1808	5143.90	1809	5143.10	1810	5142.36
1811	5142.48	1812	5142.85	1813	5142.40	1814	5141.80	1815	5140.57
1816	5139.47	1817	5139.26	1818	5135.63	1819	5134.18	1820	5133.62
1821	5133.99	1822	5133.63	1823	5132.76	1824	5131.72	1825	5130.93
1826	5128.95	1827	5161.00	1828	5161.00	1829	5159.00	1830	5168.00
1831	5172.00	1832	5181.00	1833	5154.50	1834	5177.00	1835	5173.00
1836	5177.00	1837	5151.82	1838	5153.00	1839	5159.00	1840	5154.00
1841	5153.78	1842	5182.00	1843	5186.00	1844	5185.00	1845	5184.00
1846	5185.00	1847	5185.00	1848	5157.00	1849	5153.39	1850	5152.00
1851	5148.86	1852	5146.85	1853	5146.27	1854	5146.70	1855	5144.55
1856	5149.91	1857	5151.01	1858	5149.65	1859	5147.58	1860	5146.61
1861	5145.29	1862	5144.46	1863	5144.14	1864	5143.38	1865	5141.67
1866	5141.27	1867	5142.18	1868	5142.60	1869	5141.11	1870	5139.45
1871	5138.36	1872	5138.88	1873	5134.07	1874	5133.86	1875	5133.44
1876	5133.86	1877	5133.77	1878	5133.07	1879	5132.06	1880	5131.33
1881	5129.73	1882	5158.00	1883	5162.00	1884	5160.00	1885	5168.00

1886	5173.00	1887	5178.00	1888	5178.00	1889	5153.01	1890	5176.00
1891	5178.00	1892	5178.09	1893	5153.00	1894	5159.00	1895	5153.00
1896	5152.00	1897	5182.00	1898	5187.00	1899	5187.00	1900	5188.00
1901	5190.00	1902	5191.00	1903	5153.00	1904	5153.10	1905	5151.69
1906	5148.19	1907	5145.35	1908	5143.57	1909	5146.24	1910	5148.68
1911	5150.31	1912	5150.68	1913	5148.73	1914	5147.38	1915	5145.99
1916	5144.53	1917	5144.14	1918	5143.64	1919	5141.85	1920	5139.41
1921	5140.57	1922	5141.94	1923	5141.48	1924	5139.76	1925	5140.40
1926	5136.59	1927	5132.93	1928	5133.31	1929	5133.15	1930	5133.72
1931	5133.94	1932	5133.21	1933	5132.49	1934	5131.47	1935	5130.26
1936	5158.00	1937	5162.00	1938	5161.00	1939	5168.00	1940	5173.00
1941	5178.00	1942	5180.00	1943	5179.00	1944	5153.22	1945	5178.00
1946	5152.40	1947	5154.00	1948	5160.00	1949	5155.00	1950	5153.00
1951	5183.00	1952	5188.00	1953	5189.00	1954	5191.00	1955	5194.00
1956	5194.00	1957	5151.00	1958	5130.75	1959	5130.94	1960	5153.27
1961	5152.02	1962	5148.55	1963	5145.97	1964	5144.35	1965	5147.06
1966	5148.77	1967	5150.31	1968	5151.12	1969	5149.05	1970	5147.33
1971	5145.82	1972	5144.52	1973	5143.90	1974	5143.91	1975	5141.63
1976	5139.28	1977	5140.01	1978	5140.98	1979	5140.90	1980	5139.30
1981	5140.20	1982	5140.30	1983	5131.23	1984	5132.57	1985	5132.92
1986	5133.72	1987	5134.02	1988	5133.69	1989	5132.57	1990	5131.79
1991	5161.00	1992	5151.83	1993	5163.00	1994	5167.00	1995	5170.00
1996	5178.00	1997	5182.00	1998	5182.00	1999	5179.00	2000	5153.51
2001	5153.07	2002	5154.00	2003	5162.00	2004	5158.00	2005	5153.00
2006	5184.00	2007	5189.00	2008	5191.00	2009	5194.00	2010	5197.00
2011	5197.00	2012	5152.00	2013	5131.93	2014	5131.00	2015	5131.54
2016	5131.28	2017	5153.49	2018	5152.36	2019	5149.09	2020	5146.57
2021	5145.09	2022	5147.08	2023	5145.26	2024	5150.48	2025	5150.62
2026	5149.17	2027	5147.63	2028	5146.12	2029	5144.92	2030	5144.07
2031	5143.68	2032	5142.08	2033	5139.43	2034	5138.34	2035	5140.13
2036	5140.93	2037	5139.60	2038	5140.10	2039	5140.20	2040	5129.51
2041	5131.76	2042	5132.82	2043	5133.74	2044	5134.09	2045	5133.82
2046	5133.00	2047	5162.00	2048	5163.00	2049	5161.00	2050	5163.00
2051	5168.00	2052	5178.00	2053	5183.00	2054	5183.00	2055	5181.00
2056	5153.80	2057	5153.72	2058	5155.00	2059	5163.00	2060	5158.00
2061	5153.00	2062	5186.00	2063	5190.00	2064	5193.00	2065	5196.00
2066	5200.00	2067	5200.00	2068	5161.00	2069	5133.24	2070	5132.09
2071	5133.33	2072	5131.50	2073	5131.72	2074	5131.14	2075	5153.72
2076	5152.72	2077	5149.64	2078	5147.15	2079	5145.76	2080	5147.75
2081	5145.76	2082	5150.49	2083	5150.66	2084	5148.90	2085	5147.73
2086	5146.27	2087	5144.87	2088	5144.06	2089	5142.47	2090	5140.75
2091	5139.86	2092	5138.50	2093	5139.21	2094	5140.27	2095	5140.71
2096	5139.12	2097	5140.00	2098	5128.13	2099	5131.30	2100	5132.79
2101	5133.76	2102	5134.11	2103	5134.00	2104	5164.00	2105	5162.00
2106	5164.00	2107	5165.00	2108	5169.00	2109	5177.00	2110	5183.00
2111	5185.00	2112	5184.02	2113	5154.27	2114	5154.33	2115	5156.00
2116	5164.00	2117	5157.00	2118	5152.00	2119	5188.94	2120	5192.00
2121	5197.00	2122	5201.00	2123	5203.00	2124	5203.00	2125	5165.00
2126	5134.09	2127	5133.52	2128	5134.13	2129	5132.23	2130	5133.64
2131	5130.94	2132	5132.24	2133	5151.00	2134	5164.00	2135	5150.00
2136	5163.00	2137	5151.00	2138	5161.00	2139	5152.00	2140	5159.00
2141	5156.00	2142	5153.97	2143	5153.08	2144	5150.15	2145	5147.72
2146	5146.38	2147	5148.13	2148	5146.71	2149	5150.83	2150	5150.53
2151	5148.83	2152	5147.28	2153	5146.13	2154	5145.18	2155	5144.47
2156	5141.77	2157	5140.45	2158	5140.58	2159	5138.61	2160	5138.45
2161	5139.34	2162	5140.26	2163	5138.56	2164	5136.78	2165	5130.24
2166	5130.60	2167	5133.01	2168	5133.82	2169	5134.08	2170	5165.00
2171	5165.00	2172	5170.00	2173	5173.00	2174	5174.00	2175	5178.00
2176	5184.00	2177	5188.00	2178	5188.00	2179	5154.66	2180	5154.96
2181	5157.00	2182	5164.00	2183	5157.00	2184	5192.01	2185	5195.00
2186	5200.00	2187	5204.00	2188	5205.00	2189	5207.00	2190	5169.00
2191	5169.00	2192	5134.00	2193	5134.14	2194	5133.86	2195	5133.71
2196	5134.12	2197	5130.50	2198	5131.60	2199	5133.68	2200	5158.00
2201	5168.00	2202	5160.00	2203	5167.00	2204	5161.00	2205	5166.00
2206	5163.00	2207	5165.00	2208	5130.39	2209	5154.00	2210	5153.00
2211	5150.65	2212	5148.23	2213	5146.97	2214	5148.20	2215	5147.10
2216	5151.70	2217	5150.01	2218	5148.91	2219	5147.37	2220	5146.00
2221	5145.04	2222	5144.69	2223	5141.88	2224	5139.49	2225	5139.80
2226	5139.48	2227	5138.43	2228	5138.56	2229	5140.03	2230	5139.04
2231	5138.86	2232	5131.98	2233	5130.11	2234	5133.19	2235	5133.76
2236	5169.00	2237	5174.00	2238	5170.00	2239	5177.00	2240	5179.00
2241	5181.00	2242	5185.00	2243	5189.00	2244	5190.00	2245	5155.05
2246	5151.59	2247	5158.00	2248	5159.03	2249	5193.00	2250	5197.06
2251	5203.00	2252	5206.00	2253	5207.00	2254	5211.00	2255	5168.00
2256	5168.00	2257	5168.00	2258	5133.71	2259	5133.69	2260	5133.71
2261	5134.13	2262	5133.57	2263	5132.20	2264	5133.78	2265	5134.03
2266	5160.80	2267	5168.00	2268	5160.80	2269	5167.00	2270	5160.90
2271	5161.50	2272	5161.08	2273	5130.05	2274	5132.15	2275	5156.00
2276	5152.86	2277	5151.17	2278	5148.76	2279	5147.57	2280	5148.71
2281	5147.67	2282	5151.78	2283	5149.74	2284	5148.38	2285	5146.99
2286	5145.78	2287	5144.89	2288	5144.43	2289	5141.92	2290	5139.36
2291	5139.24	2292	5139.71	2293	5137.75	2294	5137.79	2295	5139.66

2296	5139.50	2297	5138.54	2298	.24
2166	5130.60	2167	5133.01	2168	5133.82
2171	5165.00	2172	5170.00	2173	5173.00
2176	5184.00	2177	5188.00	2178	5188.00
2181	5157.00	2182	5164.00	2183	5157.00
2186	5200.00	2187	5204.00	2188	5205.00
2191	5169.00	2192	5134.00	2193	5134.14
2196	5134.12	2197	5130.50	2198	5131.60
2201	5168.00	2202	5160.00	2203	5167.00
2206	5163.00	2207	5165.00	2208	5130.39
2211	5150.65	2212	5148.23	2213	5146.97
2216	5151.70	2217	5150.01	2218	5148.91
2221	5145.04	2222	5144.69	2223	5141.88
2226	5139.48	2227	5138.43	2228	5138.56
2231	5138.86	2232	5131.98	2233	5130.11
2236	5169.00	2237	5174.00	2238	5170.00
2241	5181.00	2242	5185.00	2243	5189.00
2246	5151.59	2247	5158.00	2248	5159.03
2251	5203.00	2252	5206.00	2253	5207.00
2256	5168.00	2257	5168.00	2258	5133.71
2261	5134.13	2262	5133.57	2263	5132.20
2266	5160.80	2267	5168.00	2268	5160.80
2271	5161.50	2272	5161.08	2273	5130.05
2276	5152.86	2277	5151.17	2278	5148.76
2281	5147.67	2282	5151.78	2283	5149.74
2286	5145.78	2287	5144.89	2288	5144.43
2291	5139.24	2292	5139.71	2293	5137.75
2296	5139.50	2297	5138.54	2298	5133.24
2301	5173.00	2302	5177.00	2303	5179.00
2306	5183.00	2307	5187.00	2308	5191.00
2311	5156.19	2312	5158.00	2313	5194.00
2316	5206.00	2317	5208.00	2318	5213.00
2321	5165.00	2322	5166.00	2323	5132.73
2326	5133.52	2327	5134.54	2328	5133.77
2331	5159.00	2332	5164.00	2333	5160.00
2336	5162.00	2337	5129.34	2338	5130.98
2341	5154.83	2342	5153.27	2343	5152.00
2346	5148.98	2347	5148.10	2348	5150.90
2351	5146.80	2352	5145.38	2353	5144.65
2356	5140.37	2357	5138.65	2358	5138.76
2361	5139.08	2362	5139.50	2363	5137.96
2366	5175.00	2367	5178.00	2368	5182.00
2371	5185.00	2372	5189.00	2373	5194.00
2376	5156.78	2377	5197.00	2378	5198.00
2381	5212.00	2382	5217.91	2383	5165.00
2386	5163.00	2387	5166.00	2388	5128.60
2391	5135.21	2392	5134.31	2393	5133.97
2396	5157.41	2397	5162.00	2398	5158.04
2401	5131.97	2402	5133.80	2403	5133.91
2406	5160.00	2407	5152.74	2408	5152.19
2411	5149.61	2412	5148.38	2413	5147.20
2416	5146.65	2417	5145.17	2418	5143.97
2421	5140.46	2422	5139.01	2423	5138.08
2426	5137.95	2427	5138.68	2428	5136.36
2431	5181.00	2432	5185.00	2433	5187.00
2436	5191.00	2437	5195.00	2438	5197.00
2441	5197.00	2442	5201.00	2443	5207.00
2446	5166.00	2447	5165.00	2448	5165.00
2451	5166.00	2452	5128.66	2453	5127.90
2456	5138.29	2457	5159.00	2458	5163.00
2461	5133.70	2462	5134.12	2463	5135.63
2466	5133.58	2467	5155.57	2468	5154.27
2471	5150.71	2472	5150.20	2473	5148.85
2476	5144.50	2477	5146.47	2478	5145.11
2481	5139.65	2482	5140.40	2483	5140.09
2486	5137.33	2487	5137.69	2488	5138.28
2491	5181.00	2492	5187.00	2493	5190.00
2496	5174.46	2497	5195.00	2498	5197.00
2501	5202.00	2502	5205.78	2503	5206.71
2506	5164.46	2507	5162.81	2508	5161.51
2511	5165.00	2512	5128.05	2513	5127.37
2516	5156.02	2517	5158.00	2518	5155.99
2521	5127.22	2522	5131.36	2523	5133.43
2526	5154.82	2527	5153.43	2528	5152.00
2531	5151.28	2532	5150.15	2533	5149.18
2536	5144.69	2537	5143.19	2538	5141.62
2541	5140.36	2542	5140.32	2543	5137.86
2546	5136.17	2547	5135.82	2548	5179.03
2551	5192.00	2552	5194.00	2553	5195.00
2556	5197.00	2557	5197.00	2558	5200.00
2561	5204.82	2562	5200.70	2563	5164.00
2701	5139.28	2702	5137.13	2703	5138.48
				2704	5139.74
				2705	5137.92

2706	5134.19	2707	5133.04	2708	5132.77	2709	5168.58	2710	5176.13
2711	5179.90	2712	5188.00	2713	5195.00	2714	5198.00	2715	5198.00
2716	5198.00	2717	5160.00	2718	5202.00	2719	5205.04	2720	5203.68
2721	5202.84	2722	5202.92	2723	5202.80	2724	5158.00	2725	5156.00
2726	5155.00	2727	5158.64	2728	5157.12	2729	5155.90	2730	5130.31
2731	5120.41	2732	5127.11	2733	5134.94	2734	5135.88	2735	5133.06
2736	5130.53	2737	5129.24	2738	5127.17	2739	5156.83	2740	5154.29
2741	5151.46	2742	5149.13	2743	5148.24	2744	5147.20	2745	5145.79
2746	5144.53	2747	5143.43	2748	5142.07	2749	5140.77	2750	5137.70
2751	5137.78	2752	5138.19	2753	5137.44	2754	5135.33	2755	5133.61
2756	5132.87	2757	5161.16	2758	5179.02	2759	5180.44	2760	5186.00
2761	5194.00	2762	5199.00	2763	5201.00	2764	5201.00	2765	5160.00
2766	5204.00	2767	5206.23	2768	5205.92	2769	5204.19	2770	5202.80
2771	5203.23	2772	5156.00	2773	5154.00	2774	5159.64	2775	5158.52
2776	5157.51	2777	5130.93	2778	5121.82	2779	5122.49	2780	5132.59
2781	5134.32	2782	5133.13	2783	5131.18	2784	5129.03	2785	5129.34
2786	5154.85	2787	5151.75	2788	5149.24	2789	5148.50	2790	5147.80
2791	5146.77	2792	5145.74	2793	5144.52	2794	5143.09	2795	5141.66
2796	5139.29	2797	5136.69	2798	5137.22	2799	5137.13	2800	5136.02
2801	5134.74	2802	5133.49	2803	5159.00	2804	5173.76	2805	5181.49
2806	5184.90	2807	5193.00	2808	5197.00	2809	5201.00	2810	5205.00
2811	5160.00	2812	5205.56	2813	5205.96	2814	5205.72	2815	5211.44
2816	5210.38	2817	5208.98	2818	5159.99	2819	5158.15	2820	5157.27
2821	5156.33	2822	5131.54	2823	5121.37	2824	5122.11	2825	5130.01
2826	5131.98	2827	5132.82	2828	5131.72	2829	5130.29	2830	5129.71
2831	5129.39	2832	5129.45	2833	5153.28	2834	5149.76	2835	5148.44
2836	5148.06	2837	5147.60	2838	5147.03	2839	5146.28	2840	5144.90
2841	5143.23	2842	5141.73	2843	5138.60	2844	5137.36	2845	5137.21
2846	5137.30	2847	5136.73	2848	5134.04	2849	5162.00	2850	5165.91
2851	5180.87	2852	5185.11	2853	5191.00	2854	5195.00	2855	5198.00
2856	5205.00	2857	5161.29	2858	5209.19	2859	5202.33	2860	5210.73
2861	5204.57	2862	5210.26	2863	5209.83	2864	5157.54	2865	5156.39
2866	5153.60	2867	5133.20	2868	5125.29	2869	5118.63	2870	5126.74
2871	5129.30	2872	5130.91	2873	5131.93	2874	5129.46	2875	5129.47
2876	5128.47	2877	5129.87	2878	5129.52	2879	5151.02	2880	5149.83
2881	5149.36	2882	5148.77	2883	5148.30	2884	5148.06	2885	5147.28
2886	5145.87	2887	5143.55	2888	5137.34	2889	5137.08	2890	5136.40
2891	5137.09	2892	5136.96	2893	5136.65	2894	5162.04	2895	5166.00
2896	5178.81	2897	5185.96	2898	5189.00	2899	5190.00	2900	5193.00
2901	5199.00	2902	5160.32	2903	5203.00	2904	5206.00	2905	5207.00
2906	5207.00	2907	5207.00	2908	5205.00	2909	5154.73	2910	5153.47
2911	5135.40	2912	5128.12	2913	5120.45	2914	5118.92	2915	5126.73
2916	5128.65	2917	5130.95	2918	5130.17	2919	5130.00	2920	5130.19
2921	5128.54	2922	5129.39	2923	5126.70	2924	5151.43	2925	5150.46
2926	5150.45	2927	5149.62	2928	5149.84	2929	5148.90	2930	5147.34
2931	5146.04	2932	5143.07	2933	5137.60	2934	5136.49	2935	5136.88
2936	5136.81	2937	5136.72	2938	5161.67	2939	5162.68	2940	5174.70
2941	5183.70	2942	5186.16	2943	5185.00	2944	5186.00	2945	5192.00
2946	5158.65	2947	5194.00	2948	5200.00	2949	5197.00	2950	5201.00
2951	5201.00	2952	5201.00	2953	5153.86	2954	5137.80	2955	5131.40
2956	5123.24	2957	5120.27	2958	5120.27	2959	5126.74	2960	5123.08
2961	5128.93	2962	5118.35	2963	5128.49	2964	5127.33	2965	5124.87
2966	5126.97	2967	5123.67	2968	5122.82	2969	5152.72	2970	5152.12
2971	5151.92	2972	5152.20	2973	5152.00	2974	5150.48	2975	5148.38
2976	5145.40	2977	5139.39	2978	5136.90	2979	5136.67	2980	5136.83
2981	5136.70	2982	5160.93	2983	5162.53	2984	5163.68	2985	5175.57
2986	5178.46	2987	5179.46	2988	5180.00	2989	5185.00	2990	5157.02
2991	5187.00	2992	5193.00	2993	5196.00	2994	5190.00	2995	5199.00
2996	5200.00	2997	5138.77	2998	5135.74	2999	5125.45	3000	5124.57
3001	5125.22	3002	5127.86	3003	5117.64	3004	5128.61	3005	5124.59
3006	5116.50	3007	5125.48	3008	5121.24	3009	5123.94	3010	5122.45
3011	5123.45	3012	5156.50	3013	5155.27	3014	5154.62	3015	5154.15
3016	5153.27	3017	5152.39	3018	5150.89	3019	5148.14	3020	5141.02
3021	5138.29	3022	5136.88	3023	5136.48	3024	5136.78	3025	5160.06
3026	5162.18	3027	5163.11	3028	5164.68	3029	5170.34	3030	5172.21
3031	5174.92	3032	5178.00	3033	5185.00	3034	5181.00	3035	5187.00
3036	5191.00	3037	5197.00	3038	5198.93	3039	5137.87	3040	5137.05
3041	5127.58	3042	5129.43	3043	5129.35	3044	5125.02	3045	5127.86
3046	5115.84	3047	5120.11	3048	5119.61	3049	5115.97	3050	5118.69
3051	5122.22	3052	5117.57	3053	5159.39	3054	5158.86	3055	5158.43
3056	5157.29	3057	5155.33	3058	5153.15	3059	5151.80	3060	5150.46
3061	5146.23	3062	5139.67	3063	5137.02	3064	5137.09	3065	5136.87
3066	5161.71	3067	5162.70	3068	5164.04	3069	5165.50	3070	5169.21
3071	5170.05	3072	5174.96	3073	5182.00	3074	5184.00	3075	5178.04
3076	5187.00	3077	5194.00	3078	5199.00	3079	5133.64	3080	5135.31
3081	5128.85	3082	5129.32	3083	5124.19	3084	5128.21	3085	5117.30
3086	5119.16	3087	5117.25	3088	5119.00	3089	5117.62	3090	5116.92
3091	5120.62	3092	5161.07	3093	5160.38	3094	5160.09	3095	5159.92
3096	5157.78	3097	5154.40	3098	5152.26	3099	5151.05	3100	5148.38
3101	5142.04	3102	5138.40	3103	5137.37	3104	5138.11	3105	5162.11
3106	5163.49	3107	5164.87	3108	5166.21	3109	5169.33	3110	5170.76
3111	5183.00	3112	5176.00	3113	5185.00	3114	5172.76	3115	5192.00

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3116 5196.93 3117 5129.83 3118 5131.85 3119 5129.07 3120 5125.76
3121 5126.57 3122 5116.75 3123 5120.05 3124 5123.38 3125 5117.37
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3201 5159.40 3202 5156.13 3203 5152.90 3204 5150.64 3205 5148.63
3206 5146.20 3207 5143.43 3208 5140.72 3209 5163.93 3210 5165.16
3211 5166.27 3212 5166.49 3213 5166.52 3214 5175.04 3215 5166.49
3216 5166.50 3217 5166.45 3218 5143.13 3219 5139.83 3220 5143.11
3221 5125.77 3222 5139.83 3223 5120.29 3224 5125.23 3225 5122.69
3226 5134.95 3227 5128.78 3228 5162.95 3229 5162.13 3230 5161.58
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3236 5149.54 3237 5147.17 3238 5144.36 3239 5164.26 3240 5165.32
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3246 5165.34 3247 5145.47 3248 5143.58 3249 5145.87 3250 5138.79
3251 5144.31 3252 5128.35 3253 5139.77 3254 5132.39 3255 5134.43
3256 5138.48 3257 5163.33 3258 5162.28 3259 5161.48 3260 5160.82
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3306 5148.07 3307 5146.25 3308 5162.20 3309 5161.06 3310 5159.93
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3316 5162.03 3317 5161.72 3318 5161.60 3319 5161.80 3320 5153.27
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3341 5155.09 3342 5159.32 3343 5159.05 3344 5159.28 3345 5153.96
3346 5153.32 3347 5152.88 3348 5157.92 3349 5156.47 3350 5155.09
3351 5157.75 3352 5157.79 3353 5153.89 3354 5153.43 3355 5156.30
3356 5154.93 3357 5156.24 3358 5153.87 3359 5154.81
HYDK1 ARRAY: INP,SFCT (I2,F10.0); NODE,HYDR. COND (AQ.1) (FT/DAY) 5(I5,F10.0)
1 1.0000
1 1282.5900 2 1200.0000 3 1259.1100 4 1200.0000 5 1500.0000
6 1200.0000 7 1375.7300 8 1500.0000 9 1334.2900 10 1200.0000
11 1433.5200 12 1500.0000 13 1500.0000 14 1200.0000 15 1200.0000
16 1200.0000 17 1500.0000 18 400.0000 19 1500.0000 20 1500.0000
21 1346.6300 22 1200.0000 23 1096.7500 24 1337.2000 25 406.1300
26 1500.0000 27 1500.0000 28 1500.0000 29 1500.0000 30 1257.0600
31 1500.0000 32 1392.5800 33 605.5600 34 995.1000 35 1096.3200
36 1479.2800 37 1500.0000 38 1500.0000 39 1218.7400 40 1500.0000
41 690.0800 42 1086.3000 43 525.4500 44 80.0000 45 80.0000
46 55.0000 47 1500.0000 48 1500.0000 49 416.1100 50 1462.9400
51 400.0000 52 1419.7600 53 542.8100 54 80.0000 55 80.0000
56 80.0000 57 55.0000 58 200.0000 59 1238.6400 60 540.9600
61 1088.3900 62 497.5800 63 1411.7200 64 400.0000 65 80.0000
66 80.0000 67 80.0000 68 55.0000 69 55.0000 70 200.0000
71 400.0000 72 594.3200 73 858.4700 74 454.7900 75 1444.2600
76 942.6100 77 30.0000 78 30.0000 79 30.0000 80 55.0000
81 55.0000 82 55.0000 83 100.0000 84 400.0000 85 419.3000
86 529.5100 87 510.0600 88 275.0000 89 865.4300 90 30.0000
91 20.0000 92 35.0000 93 55.0000 94 55.0000 95 55.0000
96 55.0000 97 50.0000 98 400.0000 99 553.9500 100 250.0000
101 325.0000 102 275.0000 103 100.0000 104 70.0000 105 250.0000
106 250.0000 107 250.0000 108 250.0000 109 250.0000 110 250.0000
111 250.0000 112 250.0000 113 250.0000 114 250.0000 115 150.0000
116 150.0000 117 150.0000 118 150.0000 119 100.0000 120 100.0000
121 100.0000 122 100.0000 123 150.0000 124 200.0000 125 200.0000
126 200.0000 127 200.0000 128 200.0000 129 200.0000 130 200.0000
131 200.0000 132 200.0000 133 200.0000 134 228.8200 135 230.0000
136 230.0000 137 230.0000 138 230.0000 139 230.0000 140 230.0000
141 150.0000 142 150.0000 143 40.0000 144 15.0000 145 15.0000
146 25.0000 147 55.0000 148 55.0000 149 55.0000 150 50.0000
151 250.0000 152 250.0000 153 325.0000 154 275.0000 155 100.0000

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156 110.0000 157 250.0000 158 250.0000 159 250.0000 160 250.0000
 161 250.0000 162 250.0000 163 250.0000 164 250.0000 165 250.0000
 166 100.0000 167 150.0000 168 150.0000 169 125.0000 170 100.0000
 171 100.0000 172 100.0000 173 100.0000 174 100.0000 175 215.0000
 176 200.0000 177 200.0000 178 200.0000 179 200.0000 180 200.0000
 181 200.0000 182 200.0000 183 200.0000 184 200.0000 185 228.7200
 186 230.0000 187 230.0000 188 230.0000 189 230.0000 190 230.0000
 191 230.0000 192 150.0000 193 150.0000 194 110.0000 195 20.0000
 196 15.0000 197 15.0000 198 15.0000 199 25.0000 200 55.0000
 201 90.0000 202 225.0000 203 250.0000 204 250.0000 205 325.0000
 206 250.0000 207 100.0000 208 210.0000 209 250.0000 210 250.0000
 211 250.0000 212 235.0700 213 100.0000 214 100.0000 215 100.0000
 216 100.0000 217 100.0000 218 100.0000 219 125.0000 220 100.0000
 221 100.0000 222 100.0000 223 100.0000 224 100.0000 225 100.0000
 226 100.0000 227 100.0000 228 200.0000 229 200.0000 230 200.0000
 231 200.0000 232 200.0000 233 200.0000 234 200.0000 235 200.0000
 236 220.1600 237 230.0000 238 230.0000 239 230.0000 240 230.0000
 241 230.0000 242 230.0000 243 150.0000 244 150.0000 245 375.0000
 246 100.0000 247 30.0000 248 25.0000 249 20.0000 250 15.0000
 251 30.0000 252 90.0000 253 250.0000 254 250.0000 255 250.0000
 256 100.0000 257 200.0000 258 250.0000 259 75.0000 260 210.0000
 261 100.0000 262 100.0000 263 100.0000 264 100.0000 265 100.0000
 266 100.0000 267 100.0000 268 100.0000 269 100.0000 270 100.0000
 271 100.0000 272 100.0000 273 100.0000 274 200.0000 275 100.0000
 276 100.0000 277 100.0000 278 100.0000 279 100.0000 280 200.0000
 281 200.0000 282 200.0000 283 200.0000 284 200.0000 285 200.0000
 286 205.7800 287 214.2000 288 230.0000 289 230.0000 290 230.0000
 291 230.0000 292 230.0000 293 230.0000 294 150.0000 295 150.0000
 296 375.0000 297 350.0000 298 100.0000 299 40.0000 300 25.0000
 301 25.0000 302 30.0000 303 50.0000 304 100.0000 305 250.0000
 306 250.0000 307 250.0000 308 250.0000 309 200.0000 310 250.0000
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1386	250.0000	1387	250.0000	1388	250.0000	1389	250.0000	1390	225.0000
1391	225.0000	1392	225.0000	1393	200.0000	1394	200.0000	1395	150.0000
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1436	250.0000	1437	250.0000	1438	250.0000	1439	225.0000	1440	200.0000
1441	225.0000	1442	200.0000	1443	200.0000	1444	150.0000	1445	100.0000
1446	100.0000	1447	70.0000	1448	40.0000	1449	40.0000	1450	100.0000
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1471	20.0000	1472	10.0000	1473	10.0000	1474	15.0000	1475	25.0000
1476	20.0000	1477	20.0000	1478	40.0000	1479	40.0000	1480	40.0000
1481	40.0000	1482	250.0000	1483	250.0000	1484	250.0000	1485	250.0000
1486	250.0000	1487	250.0000	1488	225.0000	1489	200.0000	1490	200.0000
1491	200.0000	1492	200.0000	1493	175.0000	1494	100.0000	1495	100.0000
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1531	40.0000	1532	250.0000	1533	250.0000	1534	250.0000	1535	250.0000
1536	225.0000	1537	225.0000	1538	200.0000	1539	200.0000	1540	200.0000
1541	200.0000	1542	150.0000	1543	100.0000	1544	100.0000	1545	70.0000
1546	40.0000	1547	40.0000	1548	40.0000	1549	40.0000	1550	40.0000
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1556	40.0000	1557	60.0000	1558	170.0000	1559	150.0000	1560	70.0000
1561	150.0000	1562	150.0000	1563	20.0000	1564	20.0000	1565	20.0000
1566	15.0000	1567	15.0000	1568	20.0000	1569	15.0000	1570	5.0000
1571	3.0000	1572	3.0000	1573	1.0000	1574	20.0000	1575	25.0000
1576	55.0000	1577	20.0000	1578	20.0000	1579	40.0000	1580	40.0000
1581	40.0000	1582	40.0000	1583	250.0000	1584	250.0000	1585	250.0000
1586	225.0000	1587	225.0000	1588	225.0000	1589	200.0000	1590	200.0000
1591	200.0000	1592	150.0000	1593	100.0000	1594	100.0000	1595	70.0000
1596	40.0000	1597	40.0000	1598	40.0000	1599	40.0000	1600	40.0000
1601	40.0000	1602	40.0000	1603	40.0000	1604	40.0000	1605	40.0000
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1611	150.0000	1612	150.0000	1613	15.0000	1614	15.0000	1615	20.0000
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1631	40.0000	1632	40.0000	1633	40.0000	1634	40.0000	1635	250.0000
1636	200.0000	1637	225.0000	1638	225.0000	1639	200.0000	1640	200.0000
1641	200.0000	1642	175.0000	1643	150.0000	1644	100.0000	1645	100.0000
1646	70.0000	1647	40.0000	1648	40.0000	1649	40.0000	1650	40.0000
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1656	40.0000	1657	40.0000	1658	40.0000	1659	200.0000	1660	230.0000
1661	100.0000	1662	150.0000	1663	150.0000	1664	15.0000	1665	15.0000
1666	15.0000	1667	10.0000	1668	2.0000	1669	2.0000	1670	15.0000
1671	35.0000	1672	3.0000	1673	1.0000	1674	1.0000	1675	2.0000
1676	10.0000	1677	25.0000	1678	20.0000	1679	15.0000	1680	20.0000
1681	20.0000	1682	20.0000	1683	20.0000	1684	40.0000	1685	40.0000
1686	40.0000	1687	40.0000	1688	25.0000	1689	200.0000	1690	225.0000
1691	200.0000	1692	200.0000	1693	200.0000	1694	175.0000	1695	150.0000
1696	100.0000	1697	70.0000	1698	70.0000	1699	40.0000	1700	40.0000
1701	40.0000	1702	40.0000	1703	40.0000	1704	40.0000	1705	40.0000
1706	40.0000	1707	40.0000	1708	50.0000	1709	50.0000	1710	40.0000
1711	250.0000	1712	230.0000	1713	150.0000	1714	150.0000	1715	150.0000
1716	15.0000	1717	10.0000	1718	5.0000	1719	2.0000	1720	2.0000
1721	3.0000	1722	10.0000	1723	25.0000	1724	1.0000	1725	1.0000
1726	3.0000	1727	3.0000	1728	35.0000	1729	35.0000	1730	12.0000
1731	25.0000	1732	6.0000	1733	12.0000	1734	6.0000	1735	20.0000
1736	20.0000	1737	20.0000	1738	20.0000	1739	40.0000	1740	40.0000
1741	40.0000	1742	40.0000	1743	150.0000	1744	150.0000	1745	225.0000
1746	200.0000	1747	185.0000	1748	175.0000	1749	200.0000	1750	100.0000
1751	70.0000	1752	40.0000	1753	40.0000	1754	40.0000	1755	40.0000
1756	40.0000	1757	40.0000	1758	40.0000	1759	40.0000	1760	40.0000
1761	40.0000	1762	40.0000	1763	40.0000	1764	40.0000	1765	275.0000
1766	230.0000	1767	150.0000	1768	150.0000	1769	150.0000	1770	1200.0000
1771	4.0000	1772	3.0000	1773	4.0000	1774	3.0000	1775	1.0000
1776	25.0000	1777	1.0000	1778	3.0000	1779	3.0000	1780	3.0000
1781	50.0000	1782	15.0000	1783	25.0000	1784	12.0000	1785	10.0000
1786	10.0000	1787	10.0000	1788	10.0000	1789	10.0000	1790	10.0000
1791	10.0000	1792	89.3500	1793	20.0000	1794	20.0000	1795	20.0000

1796	40.0000	1797	40.0000	1798	40.0000	1799	40.0000	1800	40.0000
1801	150.0000	1802	150.0000	1803	200.0000	1804	175.0000	1805	150.0000
1806	150.0000	1807	180.0000	1808	70.0000	1809	40.0000	1810	40.0000
1811	40.0000	1812	40.0000	1813	40.0000	1814	40.0000	1815	40.0000
1816	40.0000	1817	40.0000	1818	40.0000	1819	40.0000	1820	40.0000
1821	40.0000	1822	275.0000	1823	230.0000	1824	150.0000	1825	150.0000
1826	150.0000	1827	4.0000	1828	6.0000	1829	6.0000	1830	3.0000
1831	3.0000	1832	5.0000	1833	25.0000	1834	3.0000	1835	3.0000
1836	9.0000	1837	40.0000	1838	15.0000	1839	25.0000	1840	12.0000
1841	10.0000	1842	10.0000	1843	10.0000	1844	10.0000	1845	10.0000
1846	10.0000	1847	10.0000	1848	10.0000	1849	20.0000	1850	20.0000
1851	20.0000	1852	40.0000	1853	40.0000	1854	40.0000	1855	40.0000
1856	40.0000	1857	150.0000	1858	150.0000	1859	210.0000	1860	150.0000
1861	125.0000	1862	100.0000	1863	170.0000	1864	40.0000	1865	40.0000
1866	40.0000	1867	40.0000	1868	40.0000	1869	40.0000	1870	40.0000
1871	40.0000	1872	40.0000	1873	40.0000	1874	40.0000	1875	40.0000
1876	300.0000	1877	300.0000	1878	230.0000	1879	150.0000	1880	150.0000
1881	5.0000	1882	10.0000	1883	6.0000	1884	6.0000	1885	6.0000
1886	3.0000	1887	5.0000	1888	9.4300	1889	40.0000	1890	8.6600
1891	9.0000	1892	9.7000	1893	15.0000	1894	20.0000	1895	12.0000
1896	10.0000	1897	10.0000	1898	15.0000	1899	9.0000	1900	9.5700
1901	9.8900	1902	10.0000	1903	10.0000	1904	20.0000	1905	20.0000
1906	20.0000	1907	40.0000	1908	40.0000	1909	40.0000	1910	40.0000
1911	150.0000	1912	150.0000	1913	150.0000	1914	210.0000	1915	125.0000
1916	100.0000	1917	70.0000	1918	40.0000	1919	40.0000	1920	40.0000
1921	40.0000	1922	40.0000	1923	40.0000	1924	40.0000	1925	40.0000
1926	40.0000	1927	40.0000	1928	40.0000	1929	40.0000	1930	300.0000
1931	300.0000	1932	230.0000	1933	150.0000	1934	150.0000	1935	150.0000
1936	10.0000	1937	10.0000	1938	8.0000	1939	8.0000	1940	8.0000
1941	8.0000	1942	9.5400	1943	9.0000	1944	10.0000	1945	10.0000
1946	413.6800	1947	15.0000	1948	20.0000	1949	12.0000	1950	10.0000
1951	15.0000	1952	15.0000	1953	9.0000	1954	10.3200	1955	10.0000
1956	10.0000	1957	10.0000	1958	300.0000	1959	300.0000	1960	20.0000
1961	20.0000	1962	20.0000	1963	40.0000	1964	40.0000	1965	40.0000
1966	40.0000	1967	40.0000	1968	400.0000	1969	150.0000	1970	150.0000
1971	150.0000	1972	100.0000	1973	70.0000	1974	40.0000	1975	40.0000
1976	40.0000	1977	40.0000	1978	40.0000	1979	40.0000	1980	40.0000
1981	40.0000	1982	40.0000	1983	40.0000	1984	40.0000	1985	40.0000
1986	300.0000	1987	300.0000	1988	300.0000	1989	150.0000	1990	150.0000
1991	10.0000	1992	10.0000	1993	8.0000	1994	8.0000	1995	8.0000
1996	8.0000	1997	10.0200	1998	9.0000	1999	10.0000	2000	40.0000
2001	10.0000	2002	20.0000	2003	20.0000	2004	16.0000	2005	10.0000
2006	15.0000	2007	13.0000	2008	15.2000	2009	19.2900	2010	15.0000
2011	10.0000	2012	10.0000	2013	150.0000	2014	300.0000	2015	300.0000
2016	300.0000	2017	20.0000	2018	20.0000	2019	20.0000	2020	40.0000
2021	40.0000	2022	40.0000	2023	40.0000	2024	40.0000	2025	150.0000
2026	150.0000	2027	100.0000	2028	100.0000	2029	100.0000	2030	70.0000
2031	40.0000	2032	40.0000	2033	40.0000	2034	40.0000	2035	40.0000
2036	40.0000	2037	40.0000	2038	40.0000	2039	40.0000	2040	40.0000
2041	150.0000	2042	50.0000	2043	300.0000	2044	300.0000	2045	300.0000
2046	150.0000	2047	5.0000	2048	5.0000	2049	8.0000	2050	8.0000
2051	8.0000	2052	8.0000	2053	6.2500	2054	13.4800	2055	10.0000
2056	40.0000	2057	40.0000	2058	15.0000	2059	15.0000	2060	16.0000
2061	10.0000	2062	20.6700	2063	20.0000	2064	15.0000	2065	15.0000
2066	10.0000	2067	10.0000	2068	6.0000	2069	250.0000	2070	300.0000
2071	250.0000	2072	300.0000	2073	300.0000	2074	300.0000	2075	20.0000
2076	20.0000	2077	20.0000	2078	40.0000	2079	40.0000	2080	40.0000
2081	40.0000	2082	40.0000	2083	150.0000	2084	150.0000	2085	65.0000
2086	150.0000	2087	100.0000	2088	70.0000	2089	40.0000	2090	40.0000
2091	40.0000	2092	40.0000	2093	40.0000	2094	40.0000	2095	40.0000
2096	40.0000	2097	40.0000	2098	40.0000	2099	150.0000	2100	50.0000
2101	300.0000	2102	300.0000	2103	300.0000	2104	3.0000	2105	3.0000
2106	5.0000	2107	8.0000	2108	8.0000	2109	8.0000	2110	8.2100
2111	21.9300	2112	20.3600	2113	40.0000	2114	40.0000	2115	15.0000
2116	15.0000	2117	16.0000	2118	10.0000	2119	10.0000	2120	10.0000
2121	10.0000	2122	10.0000	2123	10.0000	2124	10.0000	2125	6.0000
2126	300.0000	2127	300.0000	2128	300.0000	2129	300.0000	2130	300.0000
2131	300.0000	2132	300.0000	2133	10.0000	2134	6.0000	2135	10.0000
2136	6.0000	2137	10.0000	2138	6.0000	2139	10.0000	2140	6.0000
2141	6.0000	2142	20.0000	2143	20.0000	2144	20.0000	2145	20.0000
2146	40.0000	2147	40.0000	2148	40.0000	2149	40.0000	2150	40.0000
2151	150.0000	2152	60.0000	2153	65.0000	2154	70.0000	2155	40.0000
2156	40.0000	2157	40.0000	2158	40.0000	2159	40.0000	2160	40.0000
2161	40.0000	2162	40.0000	2163	40.0000	2164	40.0000	2165	40.0000
2166	150.0000	2167	300.0000	2168	300.0000	2169	300.0000	2170	3.0000
2171	3.0000	2172	5.0000	2173	5.0000	2174	11.1100	2175	8.0000
2176	14.2800	2177	10.0000	2178	10.0000	2179	40.0000	2180	40.0000
2181	40.0000	2182	15.0000	2183	16.0000	2184	10.0000	2185	10.0000
2186	10.0000	2187	10.0000	2188	10.0000	2189	10.0000	2190	25.0000
2191	14.0000	2192	300.0000	2193	300.0000	2194	300.0000	2195	300.0000
2196	300.0000	2197	300.0000	2198	300.0000	2199	300.0000	2200	16.0000
2201	13.5000	2202	16.0000	2203	13.5000	2204	5.0000	2205	13.5000

2206	13.5000	2207	13.5000	2208	300.0000	2209	20.0000	2210	20.0000
2211	20.0000	2212	20.0000	2213	40.0000	2214	40.0000	2215	40.0000
2216	40.0000	2217	40.0000	2218	150.0000	2219	55.0000	2220	65.0000
2221	50.0000	2222	40.0000	2223	40.0000	2224	40.0000	2225	40.0000
2226	40.0000	2227	40.0000	2228	40.0000	2229	40.0000	2230	40.0000
2231	40.0000	2232	150.0000	2233	150.0000	2234	300.0000	2235	300.0000
2236	3.0000	2237	10.0000	2238	10.0000	2239	10.0000	2240	10.0000
2241	20.0000	2242	10.0000	2243	10.0000	2244	10.0000	2245	40.0000
2246	40.0000	2247	40.0000	2248	55.0000	2249	10.0000	2250	10.0000
2251	10.0000	2252	10.0000	2253	10.0000	2254	10.0000	2255	15.0000
2256	100.0000	2257	15.0000	2258	300.0000	2259	300.0000	2260	300.0000
2261	300.0000	2262	400.0000	2263	300.0000	2264	300.0000	2265	300.0000
2266	55.0000	2267	15.0000	2268	45.0000	2269	15.0000	2270	15.0000
2271	15.0000	2272	15.0000	2273	325.0000	2274	300.0000	2275	20.0000
2276	20.0000	2277	300.0000	2278	20.0000	2279	40.0000	2280	40.0000
2281	40.0000	2282	40.0000	2283	40.0000	2284	150.0000	2285	55.0000
2286	65.0000	2287	50.0000	2288	50.0000	2289	40.0000	2290	40.0000
2291	40.0000	2292	40.0000	2293	40.0000	2294	40.0000	2295	40.0000
2296	40.0000	2297	40.0000	2298	150.0000	2299	150.0000	2300	300.0000
2301	10.0000	2302	10.0000	2303	10.0000	2304	10.0000	2305	10.0000
2306	10.0000	2307	10.0000	2308	10.0000	2309	10.0000	2310	40.0000
2311	40.0000	2312	40.0000	2313	10.0000	2314	10.0000	2315	10.0000
2316	10.0000	2317	10.0000	2318	10.0000	2319	15.0000	2320	15.0000
2321	15.0000	2322	15.0000	2323	300.0000	2324	300.0000	2325	300.0000
2326	300.0000	2327	300.0000	2328	300.0000	2329	300.0000	2330	300.0000
2331	40.0000	2332	15.0000	2333	15.0000	2334	15.0000	2335	15.0000
2336	15.0000	2337	300.0000	2338	300.0000	2339	300.0000	2340	300.0000
2341	20.0000	2342	20.0000	2343	20.0000	2344	20.0000	2345	40.0000
2346	40.0000	2347	40.0000	2348	40.0000	2349	40.0000	2350	40.0000
2351	55.0000	2352	65.0000	2353	55.0000	2354	50.0000	2355	40.0000
2356	40.0000	2357	40.0000	2358	40.0000	2359	40.0000	2360	40.0000
2361	40.0000	2362	40.0000	2363	40.0000	2364	150.0000	2365	150.0000
2366	10.0000	2367	10.0000	2368	10.0000	2369	10.0000	2370	10.0000
2371	10.0000	2372	10.0000	2373	10.0000	2374	10.0000	2375	40.0000
2376	40.0000	2377	10.0000	2378	10.0000	2379	10.0000	2380	10.0000
2381	10.0000	2382	10.0000	2383	15.0000	2384	15.0000	2385	15.0000
2386	150.0000	2387	15.0000	2388	150.0000	2389	300.0000	2390	150.0000
2391	300.0000	2392	300.0000	2393	300.0000	2394	300.0000	2395	300.0000
2396	40.0000	2397	15.0000	2398	40.0000	2399	15.0000	2400	15.0000
2401	300.0000	2402	300.0000	2403	300.0000	2404	300.0000	2405	300.0000
2406	40.0000	2407	20.0000	2408	20.0000	2409	20.0000	2410	20.0000
2411	40.0000	2412	40.0000	2413	40.0000	2414	40.0000	2415	40.0000
2416	55.0000	2417	65.0000	2418	55.0000	2419	50.0000	2420	40.0000
2421	40.0000	2422	40.0000	2423	40.0000	2424	40.0000	2425	40.0000
2426	40.0000	2427	40.0000	2428	40.0000	2429	150.0000	2430	10.0000
2431	10.0000	2432	10.0000	2433	10.0000	2434	10.0000	2435	10.0000
2436	10.0000	2437	10.0000	2438	10.0000	2439	40.0000	2440	10.0000
2441	10.0000	2442	10.0000	2443	10.0000	2444	10.0000	2445	10.0000
2446	15.0000	2447	15.0000	2448	15.0000	2449	15.0000	2450	15.0000
2451	15.0000	2452	150.0000	2453	150.0000	2454	300.0000	2455	300.0000
2456	300.0000	2457	40.0000	2458	15.0000	2459	40.0000	2460	15.0000
2461	300.0000	2462	300.0000	2463	300.0000	2464	300.0000	2465	300.0000
2466	300.0000	2467	26.6500	2468	20.0000	2469	20.0000	2470	20.0000
2471	20.0000	2472	40.0000	2473	40.0000	2474	40.0000	2475	40.0000
2476	40.0000	2477	50.0000	2478	65.0000	2479	55.0000	2480	50.0000
2481	40.0000	2482	40.0000	2483	40.0000	2484	40.0000	2485	40.0000
2486	40.0000	2487	40.0000	2488	40.0000	2489	40.0000	2490	10.0000
2491	10.0000	2492	10.0000	2493	10.0000	2494	10.0000	2495	10.0000
2496	10.0000	2497	10.0000	2498	10.0000	2499	10.0000	2500	10.0000
2501	10.0000	2502	10.0000	2503	10.0000	2504	10.0000	2505	15.0000
2506	15.0000	2507	15.0000	2508	15.0000	2509	15.0000	2510	40.0000
2511	15.0000	2512	150.0000	2513	150.0000	2514	300.0000	2515	300.0000
2516	40.0000	2517	40.0000	2518	30.7900	2519	300.0000	2520	300.0000
2521	300.0000	2522	300.0000	2523	300.0000	2524	300.0000	2525	300.0000
2526	20.0000	2527	20.0000	2528	20.0000	2529	20.0000	2530	40.0000
2531	40.0000	2532	40.0000	2533	40.0000	2534	40.0000	2535	40.0000
2536	65.0000	2537	55.0000	2538	50.0000	2539	40.0000	2540	40.0000
2541	40.0000	2542	40.0000	2543	40.0000	2544	40.0000	2545	40.0000
2546	40.0000	2547	40.0000	2548	10.0000	2549	10.0000	2550	10.0000
2551	10.0000	2552	10.0000	2553	10.0000	2554	10.0000	2555	10.0000
2556	10.0000	2557	10.0000	2558	10.0000	2559	10.0000	2560	10.0000
2561	10.0000	2562	10.0000	2563	15.0000	2564	15.0000	2565	15.0000
2566	20.0000	2567	20.0000	2568	20.0000	2569	20.0000	2570	150.0000
2571	150.0000	2572	300.0000	2573	300.0000	2574	45.1100	2575	38.6800
2576	300.0000	2577	300.0000	2578	300.0000	2579	300.0000	2580	325.0000
2581	300.0000	2582	325.0000	2583	300.0000	2584	20.0000	2585	20.0000
2586	300.0000	2587	150.0000	2588	40.0000	2589	300.0000	2590	40.0000
2591	40.0000	2592	40.0000	2593	65.0000	2594	55.0000	2595	50.0000
2596	50.0000	2597	40.0000	2598	40.0000	2599	40.0000	2600	40.0000
2601	40.0000	2602	40.0000	2603	40.0000	2604	40.0000	2605	10.0000
2606	10.0000	2607	10.0000	2608	10.0000	2609	10.0000	2610	10.0000
2611	10.0000	2612	10.0000	2613	10.0000	2614	10.0000	2615	10.0000

2616	10.0000	2617	10.0000	2618	10.0000	2619	10.0000	2620	20.0000
2621	20.0000	2622	20.0000	2623	20.0000	2624	20.0000	2625	20.0000
2626	20.0000	2627	150.0000	2628	150.0000	2629	400.0000	2630	300.0000
2631	20.0000	2632	300.0000	2633	300.0000	2634	300.0000	2635	300.0000
2636	300.0000	2637	300.0000	2638	300.0000	2639	20.0000	2640	20.0000
2641	20.0000	2642	40.0000	2643	40.0000	2644	40.0000	2645	40.0000
2646	40.0000	2647	50.0000	2648	55.0000	2649	55.0000	2650	50.0000
2651	40.0000	2652	40.0000	2653	125.0000	2654	125.0000	2655	40.0000
2656	40.0000	2657	40.0000	2658	40.0000	2659	10.0000	2660	10.0000
2661	10.0000	2662	10.0000	2663	10.0000	2664	10.0000	2665	10.0000
2666	10.0000	2667	10.0000	2668	10.0000	2669	10.0000	2670	10.0000
2671	10.0000	2672	10.0000	2673	10.0000	2674	20.0000	2675	20.0000
2676	20.0000	2677	20.0000	2678	20.0000	2679	20.0000	2680	20.0000
2681	150.0000	2682	150.0000	2683	300.0000	2684	300.0000	2685	300.0000
2686	300.0000	2687	300.0000	2688	300.0000	2689	300.0000	2690	20.0000
2691	20.0000	2692	40.0000	2693	40.0000	2694	40.0000	2695	40.0000
2696	40.0000	2697	40.0000	2698	55.0000	2699	55.0000	2700	50.0000
2701	40.0000	2702	40.0000	2703	125.0000	2704	125.0000	2705	40.0000
2706	40.0000	2707	40.0000	2708	150.0000	2709	10.0000	2710	10.0000
2711	10.0000	2712	10.0000	2713	10.0000	2714	10.0000	2715	10.0000
2716	10.0000	2717	20.0000	2718	10.0000	2719	10.0000	2720	10.0000
2721	10.0000	2722	10.0000	2723	10.0000	2724	20.0000	2725	20.0000
2726	20.0000	2727	20.0000	2728	20.0000	2729	150.0000	2730	150.0000
2731	150.0000	2732	300.0000	2733	300.0000	2734	300.0000	2735	300.0000
2736	300.0000	2737	300.0000	2738	300.0000	2739	20.0000	2740	40.0000
2741	40.0000	2742	40.0000	2743	40.0000	2744	40.0000	2745	40.0000
2746	45.0000	2747	60.0000	2748	55.0000	2749	40.0000	2750	40.0000
2751	125.0000	2752	125.0000	2753	125.0000	2754	150.0000	2755	150.0000
2756	150.0000	2757	10.0000	2758	10.0000	2759	10.0000	2760	10.0000
2761	10.0000	2762	10.0000	2763	10.0000	2764	10.0000	2765	20.0000
2766	10.0000	2767	10.0000	2768	10.0000	2769	10.0000	2770	10.0000
2771	45.0000	2772	20.0000	2773	20.0000	2774	300.0000	2775	20.0000
2776	20.0000	2777	150.0000	2778	150.0000	2779	300.0000	2780	300.0000
2781	300.0000	2782	300.0000	2783	300.0000	2784	300.0000	2785	300.0000
2786	40.0000	2787	40.0000	2788	40.0000	2789	40.0000	2790	40.0000
2791	40.0000	2792	40.0000	2793	65.0000	2794	55.0000	2795	40.0000
2796	40.0000	2797	125.0000	2798	125.0000	2799	125.0000	2800	150.0000
2801	150.0000	2802	150.0000	2803	20.0000	2804	10.0000	2805	10.0000
2806	10.0000	2807	10.0000	2808	10.0000	2809	10.0000	2810	10.0000
2811	20.0000	2812	10.0000	2813	10.0000	2814	10.0000	2815	10.0000
2816	10.0000	2817	10.0000	2818	150.0000	2819	40.0000	2820	40.0000
2821	40.0000	2822	150.0000	2823	150.0000	2824	300.0000	2825	300.0000
2826	300.0000	2827	300.0000	2828	300.0000	2829	300.0000	2830	300.0000
2831	300.0000	2832	300.0000	2833	40.0000	2834	40.0000	2835	40.0000
2836	40.0000	2837	40.0000	2838	40.0000	2839	45.0000	2840	55.0000
2841	55.0000	2842	40.0000	2843	125.0000	2844	125.0000	2845	125.0000
2846	150.0000	2847	150.0000	2848	150.0000	2849	20.0000	2850	20.0000
2851	10.0000	2852	10.0000	2853	10.0000	2854	10.0000	2855	10.0000
2856	10.0000	2857	20.0000	2858	10.0000	2859	10.0000	2860	10.0000
2861	10.0000	2862	10.0000	2863	10.0000	2864	40.0000	2865	40.0000
2866	40.0000	2867	150.0000	2868	150.0000	2869	300.0000	2870	300.0000
2871	300.0000	2872	300.0000	2873	300.0000	2874	300.0000	2875	300.0000
2876	300.0000	2877	300.0000	2878	300.0000	2879	40.0000	2880	40.0000
2881	40.0000	2882	40.0000	2883	40.0000	2884	40.0000	2885	10.0000
2886	100.0000	2887	100.0000	2888	100.0000	2889	100.0000	2890	175.0000
2891	150.0000	2892	150.0000	2893	150.0000	2894	20.0000	2895	20.0000
2896	10.0000	2897	10.0000	2898	10.0000	2899	10.0000	2900	10.0000
2901	10.0000	2902	20.0000	2903	10.0000	2904	10.0000	2905	10.0000
2906	10.0000	2907	10.0000	2908	10.0000	2909	40.0000	2910	40.0000
2911	150.0000	2912	150.0000	2913	300.0000	2914	300.0000	2915	300.0000
2916	300.0000	2917	300.0000	2918	300.0000	2919	300.0000	2920	300.0000
2921	300.0000	2922	300.0000	2923	300.0000	2924	40.0000	2925	40.0000
2926	40.0000	2927	40.0000	2928	35.0000	2929	10.0000	2930	10.0000
2931	175.0000	2932	175.0000	2933	175.0000	2934	160.0000	2935	150.0000
2936	150.0000	2937	150.0000	2938	20.0000	2939	20.0000	2940	20.0000
2941	10.0000	2942	10.0000	2943	10.0000	2944	10.0000	2945	10.0000
2946	40.0000	2947	10.0000	2948	10.0000	2949	10.0000	2950	10.0000
2951	10.0000	2952	10.0000	2953	40.0000	2954	150.0000	2955	95.0000
2956	125.0000	2957	300.0000	2958	300.0000	2959	300.0000	2960	300.0000
2961	300.0000	2962	300.0000	2963	300.0000	2964	300.0000	2965	300.0000
2966	300.0000	2967	300.0000	2968	300.0000	2969	40.0000	2970	40.0000
2971	40.0000	2972	30.0000	2973	10.0000	2974	60.0000	2975	100.0000
2976	100.0000	2977	100.0000	2978	125.0000	2979	150.0000	2980	100.0000
2981	100.0000	2982	20.0000	2983	20.0000	2984	20.0000	2985	10.0000
2986	10.0000	2987	10.0000	2988	10.0000	2989	10.0000	2990	40.0000
2991	10.0000	2992	10.0000	2993	10.0000	2994	10.0000	2995	10.0000
2996	10.0000	2997	80.0000	2998	95.0000	2999	125.0000	3000	300.0000
3001	300.0000	3002	300.0000	3003	300.0000	3004	300.0000	3005	300.0000
3006	300.0000	3007	300.0000	3008	300.0000	3009	300.0000	3010	300.0000
3011	300.0000	3012	40.0000	3013	40.0000	3014	40.0000	3015	25.0000
3016	25.0000	3017	40.0000	3018	50.0000	3019	50.0000	3020	50.0000
3021	100.0000	3022	40.0000	3023	100.0000	3024	80.0000	3025	20.0000

3026	20.0000	3027	20.0000	3028	20.0000	3029	10.0000	3030	5.0000
3031	10.0000	3032	10.0000	3033	10.0000	3034	10.0000	3035	10.0000
3036	10.0000	3037	10.0000	3038	10.0000	3039	50.0000	3040	50.0000
3041	125.0000	3042	325.0000	3043	125.0000	3044	300.0000	3045	125.0000
3046	300.0000	3047	300.0000	3048	300.0000	3049	300.0000	3050	300.0000
3051	300.0000	3052	300.0000	3053	40.0000	3054	25.0000	3055	40.0000
3056	20.0000	3057	25.0000	3058	30.0000	3059	30.0000	3060	25.0000
3061	30.0000	3062	80.0000	3063	100.0000	3064	80.0000	3065	25.0000
3066	20.0000	3067	20.0000	3068	5.0000	3069	5.0000	3070	10.0000
3071	3.0000	3072	10.0000	3073	10.0000	3074	10.0000	3075	10.0000
3076	10.0000	3077	10.0000	3078	10.0000	3079	25.0000	3080	50.0000
3081	125.0000	3082	125.0000	3083	125.0000	3084	125.0000	3085	300.0000
3086	125.0000	3087	300.0000	3088	300.0000	3089	300.0000	3090	300.0000
3091	300.0000	3092	20.0000	3093	20.0000	3094	25.0000	3095	15.0000
3096	25.0000	3097	20.0000	3098	20.0000	3099	20.0000	3100	10.0000
3101	40.0000	3102	40.0000	3103	25.0000	3104	25.0000	3105	5.0000
3106	1.5000	3107	1.5000	3108	1.5000	3109	3.0000	3110	5.0000
3111	10.0000	3112	10.0000	3113	10.0000	3114	10.0000	3115	10.0000
3116	10.0000	3117	22.0000	3118	45.0000	3119	45.0000	3120	125.0000
3121	45.0000	3122	125.0000	3123	125.0000	3124	300.0000	3125	125.0000
3126	300.0000	3127	300.0000	3128	300.0000	3129	5.0000	3130	5.0000
3131	5.0000	3132	5.0000	3133	5.0000	3134	10.0000	3135	10.0000
3136	3.0000	3137	1.5000	3138	10.0000	3139	30.0000	3140	25.0000
3141	25.0000	3142	1.5000	3143	1.5000	3144	1.5000	3145	1.5000
3146	3.0000	3147	10.0000	3148	10.0000	3149	10.0000	3150	10.0000
3151	5.0000	3152	10.0000	3153	12.0000	3154	12.0000	3155	12.0000
3156	12.0000	3157	125.0000	3158	12.0000	3159	125.0000	3160	125.0000
3161	125.0000	3162	300.0000	3163	125.0000	3164	1.5000	3165	1.5000
3166	1.5000	3167	1.5000	3168	1.5000	3169	1.5000	3170	1.5000
3171	1.5000	3172	1.5000	3173	1.5000	3174	1.5000	3175	10.0000
3176	25.0000	3177	1.5000	3178	1.5000	3179	1.5000	3180	1.5000
3181	1.5000	3182	40.0000	3183	40.0000	3184	20.0000	3185	10.0000
3186	40.0000	3187	10.0000	3188	5.0000	3189	5.0000	3190	12.0000
3191	5.0000	3192	125.0000	3193	12.0000	3194	12.0000	3195	125.0000
3196	45.0000	3197	1.5000	3198	1.5000	3199	1.5000	3200	1.5000
3201	1.5000	3202	1.5000	3203	1.5000	3204	1.5000	3205	1.5000
3206	1.5000	3207	1.5000	3208	5.0000	3209	1.5000	3210	1.5000
3211	1.5000	3212	1.5000	3213	5.0000	3214	5.0000	3215	5.0000
3216	5.0000	3217	5.0000	3218	3.0000	3219	5.0000	3220	3.0000
3221	5.0000	3222	5.0000	3223	5.0000	3224	5.0000	3225	5.0000
3226	10.0000	3227	5.0000	3228	1.5000	3229	1.5000	3230	1.5000
3231	1.5000	3232	1.5000	3233	1.5000	3234	1.5000	3235	1.5000
3236	1.5000	3237	1.5000	3238	1.5000	3239	1.5000	3240	5.0000
3241	5.0000	3242	5.0000	3243	5.0000	3244	5.0000	3245	5.0000
3246	5.0000	3247	35.0000	3248	15.0000	3249	35.0000	3250	5.0000
3251	10.0000	3252	5.0000	3253	5.0000	3254	5.0000	3255	5.0000
3256	5.0000	3257	1.5000	3258	5.0000	3259	5.0000	3260	5.0000
3261	5.0000	3262	5.0000	3263	1.5000	3264	1.5000	3265	1.5000
3266	35.0000	3267	1.5000	3268	5.0000	3269	5.0000	3270	5.0000
3271	5.0000	3272	5.0000	3273	5.0000	3274	35.0000	3275	35.0000
3276	35.0000	3277	10.0000	3278	35.0000	3279	5.0000	3280	10.0000
3281	5.0000	3282	5.0000	3283	5.0000	3284	5.0000	3285	5.0000
3286	5.0000	3287	5.0000	3288	5.0000	3289	5.0000	3290	5.0000
3291	5.0000	3292	5.0000	3293	5.0000	3294	5.0000	3295	5.0000
3296	5.0000	3297	5.0000	3298	5.0000	3299	5.0000	3300	5.0000
3301	5.0000	3302	5.0000	3303	5.0000	3304	5.0000	3305	5.0000
3306	5.0000	3307	5.0000	3308	5.0000	3309	5.0000	3310	5.0000
3311	5.0000	3312	5.0000	3313	5.0000	3314	5.0000	3315	5.0000
3316	5.0000	3317	5.0000	3318	5.0000	3319	5.0000	3320	5.0000
3321	5.0000	3322	5.0000	3323	5.0000	3324	5.0000	3325	5.0000
3326	5.0000	3327	5.0000	3328	5.0000	3329	5.0000	3330	5.0000
3331	5.0000	3332	5.0000	3333	5.0000	3334	5.0000	3335	5.0000
3336	5.0000	3337	5.0000	3338	5.0000	3339	5.0000	3340	5.0000
3341	5.0000	3342	5.0000	3343	5.0000	3344	5.0000	3345	5.0000
3346	5.0000	3347	5.0000	3348	5.0000	3349	5.0000	3350	5.0000
3351	5.0000	3352	5.0000	3353	5.0000	3354	5.0000	3355	5.0000
3356	5.0000	3357	5.0000	3358	5.0000	3359	5.0000		

HYDK2 ARRAY: INP,SFCT (I2,F10.0); NODE,HYDR. COND (AQ.2) (FT/DAY) 5(I5,F10.0)

1 1.0000

1	2.8100	2	2.8100	3	2.8100	4	2.8100	5	2.8100
6	2.8100	7	2.8100	8	2.8100	9	2.8100	10	2.8100
11	2.8100	12	2.8100	13	2.8100	14	2.8100	15	2.8100
16	2.8100	17	2.8100	18	2.8100	19	2.8100	20	2.8100
21	2.8100	22	2.8100	23	2.8100	24	2.8100	25	2.8100
26	2.8100	27	2.8100	28	2.8100	29	2.8100	30	2.8100
31	2.8100	32	2.8100	33	2.8100	34	2.8100	35	2.8100
36	2.8100	37	2.8100	38	2.8100	39	2.8100	40	2.8100
41	2.8100	42	2.8100	43	2.8100	44	2.8100	45	2.8100
46	2.8100	47	2.8100	48	2.8100	49	2.8100	50	2.8100
51	2.8100	52	2.8100	53	2.8100	54	2.8100	55	2.8100
56	2.8100	57	2.8100	58	2.8100	59	2.8100	60	2.8100
61	2.8100	62	2.8100	63	2.8100	64	2.8100	65	2.8100

66	2.8100	67	2.8100	68	2.8100	69	2.8100	70	2.8100
71	2.8100	72	2.8100	73	2.8100	74	2.8100	75	2.8100
76	2.8100	77	2.8100	78	2.0000	79	2.8100	80	2.8100
81	2.8100	82	2.8100	83	2.8100	84	2.8100	85	2.8100
86	2.8100	87	2.8100	88	2.8100	89	2.8100	90	2.8100
91	2.0000	92	2.0000	93	2.0000	94	2.0000	95	2.0000
96	2.8100	97	4.0000	98	2.8100	99	2.8100	100	2.8100
101	2.8100	102	8.0000	103	8.0000	104	8.0000	105	2.8000
106	2.8000	107	2.8000	108	2.8000	109	2.8000	110	2.8000
111	2.8000	112	2.8000	113	2.8000	114	2.8000	115	2.8000
116	2.8000	117	2.8000	118	2.8000	119	2.8000	120	2.8000
121	2.8000	122	2.8000	123	2.8000	124	2.8000	125	2.8000
126	4.0000	127	4.0000	128	4.0000	129	4.0000	130	4.0000
131	4.0000	132	4.0000	133	4.0000	134	12.0000	135	12.0000
136	12.0000	137	12.0000	138	12.0000	139	14.0000	140	6.0000
141	6.0000	142	6.0000	143	9.0000	144	2.0000	145	2.0000
146	2.0000	147	2.0000	148	2.0000	149	4.0000	150	4.0000
151	2.8100	152	2.8100	153	2.8100	154	8.0000	155	8.0000
156	8.0000	157	2.8000	158	2.8000	159	2.8000	160	2.8000
161	2.8000	162	2.8000	163	2.8000	164	2.8000	165	2.8000
166	2.8000	167	2.8000	168	2.8000	169	2.8000	170	2.8000
171	2.8000	172	2.8000	173	2.8000	174	2.8000	175	2.8000
176	2.8000	177	2.8000	178	4.0000	179	4.0000	180	4.0000
181	4.0000	182	4.0000	183	4.0000	184	4.0000	185	12.0000
186	12.0000	187	12.0000	188	12.0000	189	12.0000	190	14.0000
191	6.0000	192	6.0000	193	6.0000	194	9.0000	195	8.0000
196	2.0000	197	2.0000	198	2.0000	199	2.0000	200	4.0000
201	4.0000	202	4.0000	203	2.8100	204	2.8100	205	2.8100
206	8.0000	207	8.0000	208	8.0000	209	2.8100	210	2.8100
211	2.8100	212	2.8000	213	2.8000	214	2.8000	215	2.8000
216	2.8000	217	2.8000	218	2.8000	219	2.8000	220	2.8000
221	2.8000	222	2.8000	223	2.8000	224	2.8000	225	2.8000
226	2.8000	227	2.8000	228	4.0000	229	4.0000	230	4.0000
231	4.0000	232	4.0000	233	4.0000	234	4.0000	235	4.0000
236	12.0000	237	12.0000	238	12.0000	239	12.0000	240	12.0000
241	14.0000	242	6.0000	243	6.0000	244	6.0000	245	8.0000
246	8.0000	247	8.0000	248	2.0000	249	2.0000	250	2.0000
251	4.0000	252	4.0000	253	4.0000	254	6.0000	255	6.0000
256	2.8000	257	2.8100	258	8.0000	259	12.0000	260	8.0000
261	2.8000	262	2.8000	263	2.8000	264	2.8000	265	2.8000
266	2.8000	267	2.8000	268	2.8000	269	2.8000	270	2.8000
271	2.8000	272	2.8000	273	10.0000	274	10.0000	275	10.0000
276	2.8000	277	2.8000	278	2.8000	279	4.0000	280	4.0000
281	4.0000	282	4.0000	283	4.0000	284	4.0000	285	4.0000
286	12.0000	287	12.0000	288	12.0000	289	12.0000	290	12.0000
291	12.0000	292	14.0000	293	6.0000	294	6.0000	295	6.0000
296	12.0000	297	8.0000	298	8.0000	299	8.0000	300	2.8100
301	2.8100	302	4.0000	303	4.0000	304	11.0000	305	4.0000
306	4.0000	307	4.0000	308	4.0000	309	2.8100	310	1.5000
311	12.0000	312	12.0000	313	4.0000	314	4.0000	315	4.0000
316	4.0000	317	8.0000	318	8.0000	319	2.8000	320	2.8000
321	2.8000	322	10.0000	323	10.0000	324	10.0000	325	10.0000
326	10.0000	327	6.0000	328	4.0000	329	4.0000	330	4.0000
331	4.0000	332	4.0000	333	4.0000	334	4.0000	335	4.0000
336	4.0000	337	4.0000	338	12.0000	339	12.0000	340	12.0000
341	10.0000	342	10.0000	343	14.0000	344	6.0000	345	6.0000
346	6.0000	347	12.0000	348	8.0000	349	8.0000	350	8.0000
351	2.8100	352	2.8100	353	4.0000	354	4.0000	355	11.0000
356	11.0000	357	11.0000	358	10.0000	359	10.0000	360	10.0000
361	2.8000	362	1.5000	363	12.0000	364	12.0000	365	10.0000
366	8.0000	367	8.0000	368	8.0000	369	8.0000	370	8.0000
371	8.0000	372	8.0000	373	10.0000	374	10.0000	375	10.0000
376	10.0000	377	6.0000	378	6.0000	379	4.0000	380	4.0000
381	4.0000	382	4.0000	383	4.0000	384	4.0000	385	4.0000
386	4.0000	387	4.0000	388	4.0000	389	12.0000	390	12.0000
391	10.0000	392	10.0000	393	10.0000	394	14.0000	395	6.0000
396	6.0000	397	6.0000	398	12.0000	399	8.0000	400	8.0000
401	3.5000	402	2.8100	403	2.8100	404	2.8100	405	4.0000
406	4.0000	407	11.0000	408	11.0000	409	10.0000	410	10.0000
411	11.0000	412	11.0000	413	2.8000	414	1.5000	415	12.0000
416	12.0000	417	11.0000	418	10.0000	419	10.0000	420	10.0000
421	10.0000	422	10.0000	423	10.0000	424	10.0000	425	10.0000
426	10.0000	427	6.0000	428	6.0000	429	6.0000	430	4.0000
431	4.0000	432	4.0000	433	6.0000	434	6.0000	435	6.0000
436	6.0000	437	6.0000	438	12.0000	439	12.0000	440	12.0000
441	12.0000	442	10.0000	443	8.0000	444	10.0000	445	14.0000
446	6.0000	447	6.0000	448	6.0000	449	12.0000	450	9.0000
451	8.0000	452	3.5000	453	3.5000	454	2.8100	455	2.8100
456	11.0000	457	11.0000	458	11.0000	459	11.0000	460	10.0000
461	10.0000	462	10.0000	463	11.0000	464	11.0000	465	2.8000
466	1.5000	467	1.5000	468	12.0000	469	11.0000	470	11.0000
471	10.0000	472	10.0000	473	10.0000	474	10.0000	475	10.0000

476	10.0000	477	10.0000	478	6.0000	479	6.0000	480	6.0000
481	4.0000	482	4.0000	483	4.0000	484	6.0000	485	6.0000
486	6.0000	487	6.0000	488	6.0000	489	12.0000	490	12.0000
491	12.0000	492	12.0000	493	10.0000	494	8.0000	495	8.0000
496	14.0000	497	6.0000	498	6.0000	499	6.0000	500	12.0000
501	12.0000	502	10.0000	503	8.0000	504	3.5000	505	2.0000
506	2.0000	507	2.0000	508	2.8100	509	11.0000	510	11.0000
511	11.0000	512	10.0000	513	10.0000	514	10.0000	515	11.0000
516	11.0000	517	2.8000	518	1.5000	519	1.5000	520	12.0000
521	11.0000	522	11.0000	523	10.0000	524	10.0000	525	10.0000
526	10.0000	527	8.0000	528	8.0000	529	6.0000	530	6.0000
531	6.0000	532	6.0000	533	4.0000	534	4.0000	535	6.0000
536	6.0000	537	6.0000	538	6.0000	539	6.0000	540	12.0000
541	12.0000	542	12.0000	543	8.0000	544	8.0000	545	1.0000
546	8.0000	547	14.0000	548	6.0000	549	6.0000	550	6.0000
551	12.0000	552	12.0000	553	8.0000	554	8.0000	555	8.0000
556	3.5000	557	2.0000	558	2.0000	559	2.0000	560	2.8100
561	3.2000	562	3.2000	563	6.0000	564	6.0000	565	6.0000
566	6.0000	567	10.0000	568	10.0000	569	2.8100	570	3.0000
571	1.5000	572	12.0000	573	10.0000	574	6.0000	575	2.8000
576	2.8000	577	2.0000	578	2.8000	579	2.8000	580	4.0000
581	2.8000	582	4.0000	583	4.0000	584	4.0000	585	4.0000
586	6.0000	587	6.0000	588	6.0000	589	6.0000	590	6.0000
591	12.0000	592	12.0000	593	10.0000	594	1.0000	595	8.0000
596	1.0000	597	1.0000	598	8.0000	599	6.0000	600	2.8100
601	6.0000	602	12.0000	603	12.0000	604	12.0000	605	10.0000
606	8.0000	607	8.0000	608	2.8000	609	2.0000	610	2.0000
611	2.0000	612	2.8100	613	2.8100	614	2.8000	615	2.8000
616	6.0000	617	6.0000	618	6.0000	619	10.0000	620	10.0000
621	2.8100	622	3.0000	623	3.0000	624	12.0000	625	10.0000
626	2.8000	627	2.8000	628	2.0000	629	2.0000	630	2.0000
631	4.0000	632	4.0000	633	4.0000	634	4.0000	635	4.0000
636	4.0000	637	6.0000	638	6.0000	639	6.0000	640	6.0000
641	6.0000	642	12.0000	643	12.0000	644	6.0000	645	1.0000
646	8.0000	647	1.0000	648	0.5000	649	1.5000	650	2.8000
651	2.8100	652	2.8100	653	12.0000	654	12.0000	655	12.0000
656	10.0000	657	10.0000	658	8.0000	659	2.8000	660	2.8000
661	2.8100	662	2.0000	663	2.0000	664	2.0000	665	2.8100
666	2.8000	667	2.8000	668	2.8000	669	6.0000	670	6.0000
671	6.0000	672	6.0000	673	2.8100	674	3.0000	675	3.0000
676	1.5000	677	6.0000	678	2.8000	679	2.0000	680	2.0000
681	2.0000	682	2.0000	683	2.8000	684	4.0000	685	4.0000
686	4.0000	687	4.0000	688	4.0000	689	6.0000	690	6.0000
691	6.0000	692	6.0000	693	6.0000	694	6.0000	695	8.0000
696	0.5000	697	2.0000	698	1.0000	699	0.5000	700	0.5000
701	2.8000	702	2.8000	703	2.8000	704	12.0000	705	12.0000
706	12.0000	707	10.0000	708	10.0000	709	10.0000	710	2.8000
711	2.8000	712	2.8000	713	2.8100	714	2.8100	715	2.8100
716	2.8100	717	2.8100	718	2.8100	719	2.8100	720	2.8100
721	2.8000	722	6.0000	723	6.0000	724	6.0000	725	2.8100
726	1.0000	727	2.0000	728	1.5000	729	2.8000	730	2.8000
731	2.0000	732	2.0000	733	2.0000	734	2.0000	735	4.0000
736	4.0000	737	4.0000	738	4.0000	739	4.0000	740	4.0000
741	6.0000	742	6.0000	743	6.0000	744	6.0000	745	6.0000
746	0.5000	747	0.5000	748	1.0000	749	0.5000	750	0.5000
751	0.5000	752	2.8000	753	2.8100	754	2.8100	755	10.0000
756	12.0000	757	10.0000	758	10.0000	759	10.0000	760	8.0000
761	2.8000	762	2.8000	763	2.8000	764	2.8000	765	2.8100
766	2.8100	767	2.8100	768	2.8100	769	2.8100	770	2.8100
771	2.8100	772	2.8100	773	2.8100	774	2.8000	775	2.8000
776	2.8000	777	2.8100	778	1.0000	779	2.0000	780	1.5000
781	2.8000	782	2.0000	783	2.0000	784	2.0000	785	2.0000
786	4.0000	787	4.0000	788	4.0000	789	2.8000	790	4.0000
791	4.0000	792	0.8000	793	3.0000	794	3.0000	795	3.0000
796	3.0000	797	0.5000	798	0.5000	799	0.7500	800	0.5000
801	0.5000	802	0.5000	803	2.8000	804	2.8100	805	2.8100
806	10.0000	807	12.0000	808	12.0000	809	10.0000	810	8.0000
811	2.8000	812	2.8000	813	2.8000	814	2.8000	815	2.8000
816	2.8100	817	2.8100	818	2.8100	819	2.8100	820	2.8100
821	2.8100	822	2.8100	823	2.8100	824	2.8100	825	2.8100
826	2.8000	827	2.8000	828	2.8000	829	2.8000	830	1.0000
831	1.0000	832	0.5000	833	2.8100	834	2.8100	835	2.8100
836	2.8100	837	2.8000	838	2.8000	839	4.0000	840	2.8000
841	2.8000	842	4.0000	843	2.0000	844	0.8000	845	0.8000
846	0.8000	847	0.8000	848	0.5000	849	0.5000	850	0.7500
851	0.5000	852	0.5000	853	0.5000	854	2.8000	855	2.8100
856	2.8100	857	1.5000	858	12.0000	859	12.0000	860	10.0000
861	8.0000	862	4.0000	863	2.8000	864	2.8000	865	2.8000
866	2.8000	867	2.0000	868	2.0000	869	2.8100	870	2.8100
871	2.8100	872	2.8100	873	2.8100	874	2.8100	875	2.8100
876	2.8100	877	2.8100	878	2.8100	879	2.8100	880	2.8100
881	2.8000	882	1.0000	883	2.0000	884	0.5000	885	2.8100

886	2.8100	887	2.8100	888	2.8100	889	2.8000	890	4.0000
891	4.0000	892	2.8000	893	2.8000	894	2.8000	895	0.8000
896	0.8000	897	0.8000	898	0.8000	899	0.5000	900	0.5000
901	0.5000	902	0.5000	903	0.5000	904	0.5000	905	2.8000
906	2.8100	907	2.8100	908	0.5000	909	7.0000	910	12.0000
911	8.0000	912	8.0000	913	4.0000	914	4.0000	915	2.8000
916	2.8000	917	2.8000	918	2.8100	919	2.8100	920	2.8100
921	2.8100	922	2.8100	923	2.8100	924	2.8100	925	2.8100
926	2.8100	927	2.8100	928	2.8100	929	2.8100	930	2.8100
931	2.8100	932	2.8100	933	2.8000	934	0.5000	935	13.4900
936	1.5000	937	2.8100	938	2.8100	939	2.8100	940	2.8100
941	2.8100	942	2.8100	943	2.8000	944	2.8000	945	2.8000
946	2.8000	947	0.8000	948	0.8000	949	0.8000	950	0.5000
951	0.5000	952	0.5000	953	0.5000	954	0.5000	955	0.5000
956	2.8000	957	2.8100	958	2.8100	959	2.8000	960	1.5000
961	0.5000	962	8.0000	963	8.0000	964	8.0000	965	4.0000
966	4.0000	967	4.0000	968	2.8000	969	2.8100	970	2.8100
971	2.8100	972	2.8100	973	2.8100	974	2.8100	975	2.8100
976	2.8100	977	2.8100	978	2.8100	979	2.8100	980	2.8100
981	2.8100	982	2.8100	983	2.8100	984	2.8100	985	2.8100
986	0.5000	987	18.0000	988	2.0000	989	2.8100	990	2.8100
991	2.8100	992	2.8100	993	2.8100	994	2.8100	995	2.8100
996	2.8100	997	2.8000	998	2.8000	999	0.8000	1000	0.8000
1001	0.5000	1002	0.5000	1003	0.5000	1004	0.5000	1005	0.5000
1006	0.5000	1007	5.0000	1008	2.8100	1009	2.8100	1010	2.8000
1011	13.0000	1012	1.5000	1013	2.8000	1014	8.0000	1015	8.0000
1016	8.0000	1017	4.0000	1018	8.0000	1019	8.0000	1020	8.0000
1021	3.0000	1022	3.0000	1023	2.8100	1024	2.8100	1025	2.8100
1026	2.8100	1027	2.8100	1028	2.8100	1029	2.8100	1030	2.8100
1031	2.8100	1032	2.8100	1033	2.8100	1034	2.8100	1035	2.8100
1036	2.8100	1037	2.8100	1038	2.8100	1039	10.0000	1040	1.5000
1041	2.8100	1042	2.8100	1043	2.8100	1044	2.8100	1045	2.8100
1046	2.8100	1047	2.8100	1048	2.8100	1049	2.8100	1050	2.8100
1051	0.5000	1052	0.5000	1053	0.5000	1054	0.5000	1055	0.5000
1056	0.5000	1057	0.7500	1058	2.8000	1059	2.8100	1060	2.8100
1061	2.8000	1062	13.0000	1063	10.0000	1064	1.0000	1065	1.0000
1066	8.0000	1067	8.0000	1068	8.0000	1069	8.0000	1070	8.0000
1071	8.0000	1072	8.0000	1073	8.0000	1074	3.0000	1075	3.0000
1076	2.8100	1077	2.8100	1078	2.8100	1079	2.8100	1080	2.8100
1081	2.8100	1082	2.8100	1083	2.8100	1084	2.8100	1085	2.8100
1086	2.8100	1087	2.8100	1088	2.8100	1089	2.8100	1090	2.8100
1091	2.8100	1092	1.5000	1093	2.8100	1094	2.8100	1095	2.8100
1096	2.8100	1097	2.8100	1098	2.8100	1099	2.8100	1100	2.8100
1101	2.8100	1102	2.8100	1103	0.5000	1104	0.7500	1105	0.5000
1106	0.5000	1107	0.5000	1108	0.7500	1109	2.8000	1110	2.8100
1111	2.8100	1112	2.8000	1113	13.0000	1114	1.0000	1115	1.5000
1116	2.8000	1117	2.8000	1118	1.0000	1119	1.0000	1120	2.8000
1121	8.0000	1122	8.0000	1123	8.0000	1124	8.0000	1125	8.0000
1126	8.0000	1127	8.0000	1128	8.0000	1129	3.0000	1130	3.0000
1131	3.0000	1132	2.8100	1133	2.8100	1134	2.8100	1135	2.8100
1136	2.8100	1137	2.8100	1138	2.8100	1139	2.8100	1140	2.8100
1141	2.8100	1142	2.8100	1143	2.8100	1144	2.8100	1145	2.8100
1146	2.8100	1147	2.8100	1148	2.8100	1149	2.8100	1150	2.8100
1151	2.8000	1152	2.8100	1153	2.8100	1154	2.8100	1155	2.8100
1156	2.8100	1157	0.7500	1158	0.5000	1159	0.5000	1160	0.5000
1161	0.5000	1162	2.8000	1163	2.8100	1164	2.8100	1165	12.0000
1166	1.0000	1167	1.5000	1168	1.0000	1169	12.0000	1170	11.0000
1171	1.0000	1172	1.0000	1173	8.0000	1174	8.0000	1175	10.0000
1176	10.0000	1177	8.0000	1178	8.0000	1179	8.0000	1180	8.0000
1181	8.0000	1182	3.0000	1183	3.0000	1184	2.8100	1185	2.8100
1186	2.8100	1187	2.8100	1188	2.8100	1189	8.0000	1190	2.8100
1191	2.8100	1192	2.8100	1193	2.8100	1194	2.8100	1195	2.8100
1196	2.8100	1197	2.8100	1198	2.8100	1199	2.8100	1200	2.8100
1201	2.8100	1202	2.8100	1203	2.8100	1204	2.8100	1205	2.8100
1206	2.8100	1207	2.8100	1208	2.8100	1209	2.8100	1210	0.5000
1211	0.5000	1212	0.5000	1213	0.7500	1214	2.8000	1215	2.8100
1216	2.8100	1217	1.0000	1218	1.0000	1219	1.3000	1220	1.0000
1221	1.0000	1222	0.5000	1223	1.0000	1224	1.0000	1225	8.0000
1226	12.0000	1227	12.0000	1228	10.0000	1229	11.0000	1230	8.0000
1231	8.0000	1232	8.0000	1233	4.0000	1234	4.0000	1235	4.0000
1236	4.0000	1237	4.0000	1238	4.0000	1239	4.0000	1240	2.8100
1241	2.8100	1242	2.8100	1243	4.0000	1244	4.0000	1245	4.0000
1246	4.0000	1247	4.0000	1248	2.8100	1249	2.8100	1250	2.8100
1251	2.8100	1252	2.8100	1253	2.8100	1254	2.8100	1255	2.8100
1256	2.8100	1257	2.8100	1258	2.8100	1259	2.8100	1260	2.8100
1261	1.2500	1262	0.5000	1263	0.5000	1264	0.7500	1265	2.8000
1266	2.8100	1267	2.8100	1268	0.5000	1269	1.0000	1270	1.3000
1271	1.0000	1272	0.1000	1273	0.1000	1274	1.0000	1275	3.5000
1276	8.0000	1277	12.0000	1278	12.0000	1279	11.0000	1280	11.0000
1281	8.0000	1282	8.0000	1283	8.0000	1284	4.0000	1285	4.0000
1286	4.0000	1287	4.0000	1288	4.0000	1289	4.0000	1290	4.0000
1291	4.0000	1292	4.0000	1293	4.0000	1294	4.0000	1295	4.0000

1296	4.0000	1297	4.0000	1298	4.0000	1299	2.8100	1300	2.8100
1301	2.8100	1302	2.8100	1303	2.8100	1304	2.8100	1305	2.8100
1306	2.8100	1307	2.8100	1308	2.8100	1309	2.8100	1310	2.8100
1311	1.2500	1312	0.5000	1313	0.5000	1314	0.7500	1315	2.8000
1316	2.8100	1317	2.8100	1318	0.4000	1319	1.0000	1320	1.3000
1321	1.0000	1322	0.1000	1323	0.1000	1324	1.0000	1325	5.0000
1326	12.0000	1327	12.0000	1328	12.0000	1329	11.0000	1330	10.0000
1331	8.0000	1332	8.0000	1333	8.0000	1334	4.0000	1335	4.0000
1336	4.0000	1337	4.0000	1338	4.0000	1339	4.0000	1340	4.0000
1341	4.0000	1342	4.0000	1343	4.0000	1344	4.0000	1345	4.0000
1346	4.0000	1347	4.0000	1348	4.0000	1349	2.8100	1350	2.8100
1351	2.8100	1352	2.8100	1353	2.8100	1354	2.8100	1355	2.8100
1356	2.8100	1357	2.8100	1358	2.8100	1359	2.8100	1360	2.8100
1361	0.5000	1362	0.5000	1363	1.2500	1364	2.8100	1365	2.8100
1366	2.8100	1367	0.8000	1368	1.2000	1369	1.3000	1370	1.0000
1371	0.1000	1372	0.1000	1373	0.1000	1374	3.5000	1375	6.0000
1376	12.0000	1377	12.0000	1378	10.0000	1379	10.0000	1380	10.0000
1381	8.0000	1382	10.0000	1383	8.0000	1384	4.0000	1385	2.8100
1386	2.8000	1387	4.0000	1388	4.0000	1389	4.0000	1390	4.0000
1391	4.0000	1392	4.0000	1393	4.0000	1394	4.0000	1395	4.0000
1396	4.0000	1397	4.0000	1398	8.0000	1399	2.8100	1400	2.8100
1401	2.8100	1402	2.8100	1403	2.8100	1404	2.8100	1405	2.8100
1406	2.8100	1407	2.8100	1408	2.8100	1409	2.8100	1410	2.8100
1411	0.5000	1412	1.2500	1413	2.8100	1414	2.8100	1415	2.8100
1416	0.8000	1417	1.2000	1418	1.3000	1419	1.8000	1420	0.2000
1421	0.1000	1422	0.1000	1423	0.1000	1424	5.0000	1425	8.0000
1426	12.0000	1427	12.0000	1428	10.0000	1429	10.0000	1430	10.0000
1431	10.0000	1432	10.0000	1433	6.0000	1434	6.0000	1435	2.8000
1436	4.0000	1437	4.0000	1438	4.0000	1439	4.0000	1440	4.0000
1441	4.0000	1442	4.0000	1443	4.0000	1444	4.0000	1445	4.0000
1446	4.0000	1447	2.8000	1448	2.8100	1449	2.8100	1450	2.8100
1451	2.8100	1452	2.8100	1453	4.0000	1454	2.8100	1455	2.8100
1456	2.8100	1457	2.8100	1458	2.8100	1459	2.8100	1460	0.5000
1461	1.2500	1462	2.8100	1463	2.8100	1464	2.8100	1465	0.8000
1466	0.2000	1467	1.2000	1468	1.0000	1469	1.8000	1470	0.1000
1471	0.1000	1472	0.1000	1473	0.1000	1474	5.0000	1475	12.0000
1476	12.0000	1477	10.0000	1478	10.0000	1479	10.0000	1480	10.0000
1481	10.0000	1482	6.0000	1483	6.0000	1484	6.0000	1485	4.0000
1486	4.0000	1487	4.0000	1488	4.0000	1489	4.0000	1490	4.0000
1491	4.0000	1492	4.0000	1493	4.0000	1494	4.0000	1495	4.0000
1496	2.8000	1497	2.8000	1498	2.8100	1499	2.8100	1500	2.8100
1501	2.8100	1502	2.8100	1503	2.8100	1504	2.8100	1505	2.8100
1506	2.8100	1507	2.8100	1508	2.8100	1509	0.5000	1510	1.2500
1511	2.8100	1512	2.8100	1513	2.8100	1514	0.2700	1515	0.2000
1516	0.1000	1517	1.2000	1518	1.0000	1519	1.8000	1520	0.1000
1521	0.1000	1522	0.0600	1523	0.1000	1524	5.0000	1525	12.0000
1526	12.0000	1527	10.0000	1528	10.0000	1529	10.0000	1530	10.0000
1531	6.0000	1532	6.0000	1533	6.0000	1534	6.0000	1535	4.0000
1536	4.0000	1537	4.0000	1538	4.0000	1539	4.0000	1540	4.0000
1541	4.0000	1542	4.0000	1543	4.0000	1544	4.0000	1545	2.8000
1546	2.8000	1547	2.8100	1548	2.8100	1549	2.8100	1550	2.8100
1551	2.8100	1552	2.8100	1553	2.8100	1554	2.8100	1555	2.8100
1556	2.8100	1557	2.8100	1558	0.5000	1559	1.2500	1560	2.8100
1561	2.8100	1562	2.8100	1563	0.3400	1564	0.1000	1565	0.1000
1566	0.1000	1567	0.5000	1568	1.5000	1569	5.0000	1570	0.1000
1571	0.1200	1572	0.1000	1573	0.1000	1574	1.5000	1575	5.0000
1576	12.0000	1577	10.0000	1578	10.0000	1579	10.0000	1580	10.0000
1581	10.0000	1582	6.0000	1583	6.0000	1584	6.0000	1585	6.0000
1586	4.0000	1587	4.0000	1588	4.0000	1589	4.0000	1590	4.0000
1591	4.0000	1592	4.0000	1593	4.0000	1594	4.0000	1595	2.8000
1596	2.8000	1597	2.8100	1598	2.8100	1599	2.8100	1600	2.8100
1601	2.8100	1602	2.8100	1603	2.8100	1604	2.8100	1605	2.8100
1606	2.8100	1607	2.8100	1608	0.5000	1609	1.2500	1610	2.8100
1611	2.8100	1612	2.8100	1613	0.4900	1614	0.1000	1615	0.1000
1616	0.1000	1617	0.1000	1618	1.0000	1619	5.0000	1620	0.3000
1621	0.1000	1622	0.1000	1623	0.1000	1624	1.0000	1625	5.0000
1626	1.5000	1627	10.0000	1628	10.0000	1629	10.0000	1630	10.0000
1631	10.0000	1632	10.0000	1633	6.0000	1634	6.0000	1635	6.0000
1636	6.0000	1637	4.0000	1638	4.0000	1639	4.0000	1640	4.0000
1641	4.0000	1642	4.0000	1643	4.0000	1644	4.0000	1645	4.0000
1646	2.8000	1647	2.8000	1648	2.8100	1649	2.8100	1650	2.8100
1651	2.8100	1652	2.8100	1653	2.8100	1654	2.8100	1655	2.8100
1656	2.8100	1657	2.8100	1658	2.8100	1659	0.5000	1660	1.2500
1661	2.8100	1662	2.8100	1663	2.8100	1664	0.6000	1665	0.2000
1666	0.2000	1667	0.2000	1668	0.1000	1669	0.1000	1670	0.5000
1671	5.0000	1672	0.1000	1673	0.1000	1674	0.1000	1675	0.1000
1676	0.5000	1677	5.0000	1678	5.0000	1679	1.0000	1680	10.0000
1681	10.0000	1682	10.0000	1683	4.0000	1684	10.0000	1685	10.0000
1686	6.0000	1687	6.0000	1688	4.0000	1689	6.0000	1690	4.0000
1691	4.0000	1692	4.0000	1693	4.0000	1694	4.0000	1695	4.0000
1696	4.0000	1697	2.8000	1698	2.8000	1699	2.8000	1700	2.8100
1701	2.8100	1702	2.8100	1703	2.8100	1704	2.8100	1705	2.8100

1706	2.8100 1707	2.8100 1708	2.8100 1709	2.8100 1710	2.8100
1711	0.5000 1712	1.2500 1713	2.8100 1714	2.8100 1715	2.8100
1716	0.1000 1717	0.2000 1718	0.2000 1719	0.3000 1720	0.3000
1721	0.1000 1722	0.1000 1723	10.0000 1724	0.1000 1725	0.1000
1726	0.1000 1727	1.0000 1728	5.0000 1729	10.0000 1730	0.5000
1731	5.0000 1732	0.2000 1733	0.5000 1734	0.2000 1735	10.0000
1736	4.0000 1737	4.0000 1738	4.0000 1739	4.0000 1740	6.0000
1741	6.0000 1742	4.0000 1743	4.0000 1744	4.0000 1745	4.0000
1746	4.0000 1747	4.0000 1748	4.0000 1749	4.0000 1750	4.0000
1751	2.8000 1752	2.8000 1753	2.8000 1754	2.8100 1755	2.8100
1756	2.8100 1757	2.8100 1758	2.8100 1759	2.8100 1760	2.8100
1761	2.8100 1762	2.8100 1763	2.8100 1764	2.8100 1765	0.5000
1766	1.2500 1767	2.8100 1768	2.8100 1769	2.8100 1770	18.0000
1771	0.2000 1772	0.3000 1773	0.3000 1774	0.3000 1775	0.1000
1776	10.0000 1777	0.1000 1778	0.1000 1779	1.0000 1780	1.0000
1781	10.0000 1782	10.0000 1783	5.0000 1784	1.0000 1785	0.5000
1786	2.8000 1787	10.0000 1788	10.0000 1789	2.8100 1790	0.2000
1791	2.8100 1792	14.6900 1793	10.0000 1794	4.0000 1795	1.4000
1796	4.0000 1797	4.0000 1798	6.0000 1799	4.0000 1800	4.0000
1801	4.0000 1802	4.0000 1803	4.0000 1804	4.0000 1805	4.0000
1806	4.0000 1807	4.0000 1808	4.0000 1809	2.8000 1810	2.8000
1811	2.8100 1812	2.8100 1813	2.8100 1814	2.8100 1815	2.8100
1816	2.8100 1817	2.8100 1818	2.8100 1819	2.8100 1820	2.8100
1821	2.8100 1822	0.5000 1823	2.8100 1824	2.8100 1825	2.8100
1826	2.8100 1827	0.5000 1828	0.3000 1829	0.3000 1830	0.3000
1831	0.3000 1832	0.3000 1833	10.0000 1834	1.0000 1835	1.0000
1836	2.8000 1837	10.0000 1838	10.0000 1839	5.0000 1840	1.0000
1841	0.5000 1842	2.8100 1843	10.0000 1844	10.0000 1845	2.8000
1846	2.8000 1847	2.8000 1848	0.5000 1849	1.2800 1850	1.5300
1851	1.3400 1852	4.0000 1853	6.0000 1854	6.0000 1855	4.0000
1856	4.0000 1857	4.0000 1858	4.0000 1859	4.0000 1860	4.0000
1861	4.0000 1862	4.0000 1863	2.8000 1864	2.8000 1865	2.8000
1866	2.8100 1867	2.8100 1868	2.8100 1869	2.8100 1870	2.8100
1871	2.8100 1872	2.8100 1873	2.8100 1874	2.8100 1875	2.8100
1876	2.8100 1877	0.5000 1878	2.8100 1879	2.8100 1880	2.8100
1881	2.8100 1882	2.8100 1883	1.0000 1884	1.0000 1885	0.3000
1886	0.3000 1887	0.3000 1888	1.0000 1889	6.0500 1890	2.8100
1891	2.8100 1892	10.0000 1893	10.0000 1894	5.0000 1895	1.0000
1896	1.0000 1897	2.8100 1898	2.8100 1899	2.8100 1900	2.8000
1901	2.8000 1902	2.8100 1903	2.0000 1904	1.3900 1905	1.4200
1906	1.7400 1907	1.5000 1908	2.0000 1909	3.0000 1910	4.0000
1911	4.0000 1912	4.0000 1913	4.0000 1914	4.0000 1915	4.0000
1916	4.0000 1917	2.8000 1918	2.8000 1919	2.8000 1920	2.8100
1921	2.8100 1922	2.8100 1923	2.8100 1924	2.8100 1925	2.8100
1926	2.8100 1927	2.8100 1928	2.8100 1929	2.8100 1930	2.8100
1931	2.8100 1932	2.8100 1933	2.8100 1934	2.8100 1935	2.8100
1936	1.0000 1937	2.8100 1938	1.0000 1939	1.0000 1940	1.0000
1941	1.0000 1942	2.8100 1943	2.8100 1944	6.0200 1945	2.8100
1946	10.0000 1947	10.0000 1948	5.0000 1949	1.0000 1950	2.0000
1951	2.8000 1952	2.8100 1953	2.8100 1954	2.8000 1955	2.8100
1956	2.8100 1957	2.0000 1958	2.8100 1959	2.8100 1960	1.4000
1961	1.5000 1962	1.6500 1963	1.5000 1964	2.0000 1965	3.0000
1966	4.0000 1967	4.0000 1968	4.0000 1969	4.0000 1970	4.0000
1971	4.0000 1972	4.0000 1973	2.8000 1974	2.8000 1975	2.8000
1976	2.8100 1977	2.8100 1978	2.8100 1979	2.8100 1980	2.8100
1981	2.8100 1982	2.8100 1983	2.8100 1984	2.8100 1985	2.8100
1986	2.8100 1987	2.8100 1988	2.8100 1989	2.8100 1990	2.8100
1991	0.5000 1992	2.8100 1993	2.8100 1994	2.8100 1995	2.8100
1996	2.8100 1997	2.8100 1998	2.8100 1999	2.8000 2000	6.1600
2001	10.0000 2002	10.0000 2003	5.0000 2004	1.0000 2005	2.0000
2006	2.8000 2007	2.8100 2008	2.8000 2009	2.8100 2010	3.0000
2011	3.0000 2012	2.0000 2013	2.8100 2014	2.8100 2015	2.8100
2016	2.8100 2017	1.4400 2018	1.6000 2019	1.4400 2020	1.5000
2021	2.0000 2022	3.0000 2023	4.0000 2024	4.0000 2025	4.0000
2026	4.0000 2027	4.0000 2028	4.0000 2029	4.0000 2030	2.8000
2031	2.8000 2032	2.8000 2033	2.8100 2034	2.8100 2035	2.8100
2036	2.8100 2037	2.8100 2038	2.8100 2039	2.8100 2040	2.8100
2041	2.8100 2042	2.8100 2043	2.8100 2044	2.8100 2045	2.8100
2046	2.8100 2047	0.5000 2048	0.5000 2049	1.5000 2050	2.8100
2051	2.8100 2052	2.8100 2053	2.8100 2054	2.8000 2055	2.8000
2056	6.0900 2057	10.0000 2058	14.0000 2059	14.0000 2060	1.0000
2061	2.0000 2062	2.8100 2063	2.8000 2064	2.8100 2065	2.8000
2066	3.0000 2067	3.0000 2068	0.3000 2069	2.8100 2070	2.8100
2071	2.8100 2072	2.8100 2073	2.8100 2074	2.8000 2075	1.5000
2076	1.6600 2077	1.5400 2078	1.5000 2079	2.0000 2080	3.0000
2081	4.0000 2082	4.0000 2083	4.0000 2084	4.0000 2085	4.0000
2086	4.0000 2087	4.0000 2088	2.8000 2089	2.8000 2090	2.8100
2091	2.8100 2092	2.8100 2093	2.8100 2094	2.8100 2095	2.8100
2096	2.8100 2097	2.8100 2098	2.8100 2099	2.8100 2100	2.8100
2101	2.8100 2102	2.8100 2103	2.8100 2104	0.5000 2105	0.5000
2106	1.0000 2107	1.5000 2108	1.5000 2109	2.8100 2110	2.8000
2111	2.8000 2112	2.8000 2113	6.2800 2114	10.0000 2115	14.0000

2116	14.0000	2117	1.0000	2118	2.0000	2119	3.7000	2120	3.7000
2121	3.7000	2122	3.0000	2123	3.0000	2124	3.0000	2125	0.3000
2126	2.8100	2127	2.8100	2128	2.8100	2129	2.8100	2130	2.8100
2131	2.8100	2132	2.8100	2133	2.0000	2134	0.3000	2135	2.0000
2136	0.3000	2137	2.0000	2138	0.3000	2139	2.0000	2140	1.0000
2141	1.0000	2142	1.5000	2143	1.7300	2144	1.6400	2145	1.5000
2146	2.0000	2147	3.0000	2148	4.0000	2149	4.0000	2150	4.0000
2151	4.0000	2152	4.0000	2153	2.8000	2154	4.0000	2155	2.8100
2156	2.8100	2157	2.8100	2158	2.8100	2159	2.8100	2160	2.8100
2161	2.8100	2162	2.8100	2163	2.8100	2164	2.8100	2165	2.8100
2166	2.8100	2167	2.8100	2168	2.8100	2169	2.8100	2170	0.5000
2171	0.5000	2172	1.0000	2173	1.0000	2174	1.5000	2175	2.8100
2176	2.8000	2177	2.8000	2178	2.8000	2179	6.6100	2180	10.0000
2181	14.0000	2182	14.0000	2183	1.0000	2184	3.7000	2185	3.7000
2186	3.7000	2187	3.0000	2188	3.0000	2189	3.0000	2190	1.0000
2191	0.3000	2192	2.8100	2193	2.8100	2194	2.8100	2195	2.8100
2196	2.8100	2197	2.8100	2198	2.8100	2199	2.8100	2200	1.0000
2201	0.3000	2202	1.0000	2203	0.3000	2204	0.3000	2205	0.3000
2206	0.3000	2207	0.3000	2208	2.8100	2209	1.5000	2210	1.9300
2211	1.6800	2212	1.5000	2213	2.0000	2214	3.0000	2215	4.0000
2216	4.0000	2217	4.0000	2218	4.0000	2219	4.0000	2220	2.8000
2221	2.8000	2222	2.8100	2223	2.8100	2224	2.8100	2225	2.8100
2226	2.8100	2227	2.8100	2228	2.8100	2229	2.8100	2230	2.8100
2231	2.8100	2232	2.8100	2233	2.8100	2234	2.8100	2235	2.8100
2236	0.5000	2237	1.0000	2238	0.3000	2239	1.0000	2240	1.0000
2241	1.5000	2242	1.5000	2243	2.8000	2244	2.8000	2245	6.8100
2246	6.0000	2247	14.0000	2248	14.0000	2249	3.7000	2250	3.7000
2251	3.0000	2252	3.0000	2253	3.0000	2254	3.0000	2255	13.0000
2256	13.0000	2257	13.0000	2258	2.8000	2259	2.8100	2260	2.8100
2261	2.8100	2262	2.8100	2263	2.8100	2264	2.8100	2265	2.8100
2266	14.0000	2267	13.0000	2268	14.0000	2269	13.0000	2270	14.0000
2271	14.0000	2272	14.0000	2273	2.8100	2274	2.8100	2275	1.5000
2276	1.5000	2277	1.0000	2278	1.5000	2279	2.0000	2280	3.0000
2281	4.0000	2282	4.0000	2283	4.0000	2284	4.0000	2285	4.0000
2286	2.8000	2287	2.8000	2288	2.8100	2289	2.8100	2290	2.8100
2291	2.8100	2292	2.8100	2293	2.8100	2294	2.8100	2295	2.8100
2296	2.8100	2297	2.8100	2298	2.8100	2299	2.8100	2300	2.8100
2301	0.4000	2302	0.4000	2303	1.0000	2304	0.3000	2305	1.0000
2306	1.0000	2307	1.5000	2308	2.8000	2309	2.8000	2310	7.2700
2311	6.0000	2312	14.0000	2313	3.7000	2314	3.7000	2315	3.7000
2316	3.0000	2317	3.0000	2318	3.0000	2319	1.0000	2320	1.0000
2321	1.0000	2322	1.0000	2323	2.8100	2324	2.8100	2325	2.8100
2326	2.8100	2327	2.8100	2328	2.8100	2329	2.8100	2330	2.8100
2331	14.0000	2332	9.8800	2333	14.0000	2334	13.0000	2335	14.0000
2336	13.0000	2337	2.8100	2338	2.8100	2339	2.8100	2340	2.8100
2341	1.5000	2342	1.5000	2343	1.0000	2344	1.5000	2345	2.0000
2346	3.0000	2347	4.0000	2348	4.0000	2349	4.0000	2350	4.0000
2351	4.0000	2352	2.8000	2353	2.8000	2354	2.8100	2355	2.8100
2356	2.8100	2357	2.8100	2358	2.8100	2359	2.8100	2360	2.8100
2361	2.8100	2362	2.8100	2363	2.8100	2364	2.8100	2365	2.8100
2366	0.4000	2367	0.4000	2368	1.0000	2369	1.0000	2370	0.5000
2371	2.0000	2372	2.0000	2373	2.8000	2374	2.0000	2375	7.8700
2376	6.0000	2377	2.0000	2378	2.0000	2379	2.0000	2380	2.0000
2381	2.0000	2382	2.0000	2383	1.0000	2384	1.0000	2385	1.0000
2386	1.0000	2387	1.0000	2388	2.8100	2389	2.8100	2390	2.8100
2391	2.8100	2392	2.8100	2393	2.8100	2394	2.8100	2395	2.8100
2396	6.0000	2397	1.0000	2398	6.0000	2399	1.0000	2400	6.0000
2401	2.8100	2402	2.8100	2403	2.8100	2404	2.8100	2405	2.8100
2406	1.5000	2407	1.5000	2408	1.0000	2409	1.5000	2410	2.0000
2411	3.0000	2412	4.0000	2413	4.0000	2414	4.0000	2415	4.0000
2416	4.0000	2417	2.8000	2418	2.8000	2419	2.8100	2420	2.8100
2421	2.8100	2422	2.8100	2423	2.8100	2424	2.8100	2425	2.8100
2426	2.8100	2427	2.8100	2428	2.8100	2429	2.8100	2430	0.5000
2431	0.4000	2432	1.5000	2433	1.0000	2434	2.0000	2435	0.5000
2436	2.0000	2437	2.0000	2438	2.0000	2439	8.6000	2440	2.0000
2441	2.0000	2442	2.0000	2443	2.0000	2444	2.0000	2445	2.0000
2446	2.0500	2447	2.0200	2448	2.1400	2449	2.2100	2450	2.2600
2451	2.0200	2452	2.8100	2453	2.8100	2454	2.8100	2455	2.8100
2456	2.8100	2457	9.2700	2458	2.1400	2459	9.4500	2460	2.0400
2461	2.8100	2462	2.8100	2463	2.8100	2464	2.8100	2465	2.8100
2466	2.8100	2467	1.5000	2468	1.0000	2469	1.0000	2470	1.0000
2471	2.0000	2472	3.0000	2473	4.0000	2474	4.0000	2475	4.0000
2476	4.0000	2477	4.0000	2478	2.8000	2479	2.8000	2480	2.8100
2481	2.8100	2482	2.8100	2483	2.8100	2484	2.8100	2485	2.8100
2486	2.8100	2487	2.8100	2488	2.8100	2489	2.8100	2490	0.5000
2491	1.5000	2492	1.5000	2493	1.5000	2494	2.0000	2495	2.0000
2496	0.2000	2497	2.0000	2498	2.0000	2499	2.0000	2500	2.0000
2501	2.0000	2502	2.0000	2503	2.0000	2504	2.0000	2505	1.0000
2506	1.0000	2507	1.0000	2508	1.0000	2509	1.5000	2510	1.5000
2511	0.5000	2512	2.8100	2513	2.8100	2514	2.8100	2515	2.8100
2516	1.5000	2517	1.5000	2518	1.0000	2519	2.8100	2520	2.8100
2521	2.8100	2522	2.8100	2523	2.8100	2524	2.8100	2525	2.8100

2526	1.0000 2527	1.0000 2528	1.0000 2529	2.0000 2530	4.0000
2531	4.0000 2532	4.0000 2533	4.0000 2534	4.0000 2535	4.0000
2536	3.0000 2537	2.8000 2538	2.8100 2539	2.8100 2540	2.8100
2541	2.8100 2542	2.8100 2543	2.8100 2544	2.8100 2545	2.8100
2546	2.8100 2547	2.8100 2548	0.2000 2549	2.0000 2550	3.0000
2551	1.5000 2552	2.0000 2553	2.0000 2554	1.5000 2555	0.2000
2556	2.0000 2557	2.0000 2558	2.0000 2559	2.0000 2560	2.0000
2561	2.0000 2562	2.0000 2563	0.5000 2564	1.0000 2565	1.0000
2566	1.0000 2567	1.0000 2568	1.0000 2569	1.0000 2570	2.8100
2571	2.8100 2572	2.8100 2573	2.8100 2574	1.0000 2575	1.0000
2576	2.8100 2577	2.8100 2578	2.8100 2579	2.8100 2580	2.8100
2581	2.8100 2582	2.8100 2583	2.8100 2584	1.0000 2585	1.0000
2586	2.0000 2587	4.0000 2588	4.0000 2589	4.0000 2590	4.0000
2591	4.0000 2592	4.0000 2593	3.0000 2594	2.8000 2595	2.8100
2596	2.8100 2597	2.8100 2598	2.8100 2599	2.8100 2600	2.8100
2601	2.8100 2602	2.8100 2603	2.8100 2604	2.8100 2605	0.2000
2606	2.0000 2607	3.0000 2608	1.5000 2609	1.5000 2610	2.0000
2611	2.0000 2612	2.0000 2613	0.2000 2614	2.0000 2615	2.0000
2616	2.0000 2617	2.0000 2618	2.0000 2619	2.0000 2620	0.5000
2621	1.0000 2622	1.0000 2623	1.0000 2624	1.0000 2625	1.0000
2626	1.0000 2627	2.8100 2628	2.8100 2629	2.8100 2630	2.8100
2631	1.0000 2632	2.8100 2633	2.8100 2634	2.8100 2635	2.8100
2636	2.8100 2637	2.8100 2638	2.8100 2639	1.0000 2640	1.5000
2641	4.0000 2642	4.0000 2643	4.0000 2644	4.0000 2645	4.0000
2646	4.0000 2647	4.0000 2648	2.8000 2649	2.8100 2650	2.8100
2651	2.8100 2652	2.8100 2653	2.8100 2654	2.0000 2655	2.8100
2656	2.8100 2657	2.8100 2658	2.8100 2659	0.2000 2660	2.5000
2661	3.0000 2662	3.5000 2663	1.5000 2664	1.5000 2665	2.0000
2666	2.0000 2667	0.5000 2668	2.0000 2669	2.0000 2670	2.0000
2671	2.0000 2672	2.0000 2673	2.0000 2674	0.5000 2675	1.0000
2676	1.0000 2677	1.0000 2678	1.0000 2679	1.0000 2680	1.0000
2681	2.8100 2682	2.8100 2683	2.8100 2684	2.8100 2685	2.8100
2686	2.8100 2687	2.8100 2688	2.8100 2689	2.8100 2690	1.5000
2691	4.0000 2692	4.0000 2693	4.0000 2694	4.0000 2695	4.0000
2696	4.0000 2697	4.0000 2698	3.0000 2699	2.8100 2700	2.8100
2701	2.8100 2702	2.8100 2703	2.8100 2704	2.8100 2705	2.8100
2706	2.8100 2707	2.8100 2708	2.8100 2709	0.2000 2710	2.5000
2711	3.0000 2712	3.0000 2713	1.5000 2714	1.5000 2715	1.5000
2716	2.0000 2717	0.5000 2718	2.0000 2719	2.0000 2720	2.0000
2721	2.0000 2722	2.0000 2723	2.0000 2724	1.5000 2725	1.5000
2726	1.5000 2727	1.5000 2728	1.5000 2729	1.5000 2730	2.8100
2731	2.8100 2732	2.8100 2733	2.8100 2734	2.8100 2735	2.8100
2736	2.8100 2737	2.8100 2738	2.8100 2739	4.0000 2740	4.0000
2741	4.0000 2742	4.0000 2743	4.0000 2744	4.0000 2745	4.0000
2746	3.0000 2747	2.8100 2748	2.8100 2749	2.8100 2750	2.8100
2751	2.8100 2752	2.8100 2753	2.8100 2754	2.8100 2755	2.8100
2756	2.8100 2757	0.3500 2758	0.2000 2759	2.5000 2760	3.0000
2761	3.5000 2762	1.5000 2763	1.5000 2764	1.5000 2765	0.5000
2766	2.0000 2767	2.0000 2768	2.0000 2769	2.0000 2770	2.0000
2771	2.0000 2772	4.0000 2773	4.0000 2774	4.0000 2775	4.0000
2776	4.0000 2777	2.8100 2778	2.8100 2779	2.8100 2780	2.8100
2781	2.8000 2782	2.8100 2783	2.8100 2784	2.8100 2785	2.8100
2786	4.0000 2787	4.0000 2788	4.0000 2789	4.0000 2790	4.0000
2791	4.0000 2792	4.0000 2793	3.0000 2794	2.8100 2795	2.8100
2796	2.8100 2797	2.8100 2798	2.8100 2799	2.8100 2800	2.8100
2801	2.8100 2802	2.8100 2803	1.0000 2804	0.2000 2805	0.2000
2806	2.0000 2807	3.5000 2808	1.5000 2809	1.5000 2810	1.5000
2811	1.5000 2812	2.0000 2813	2.0000 2814	2.0000 2815	2.0000
2816	2.0000 2817	2.0000 2818	4.0000 2819	4.0000 2820	4.0000
2821	4.0000 2822	2.8100 2823	2.8100 2824	2.8100 2825	2.8100
2826	2.8100 2827	2.8100 2828	2.8100 2829	2.8100 2830	2.8100
2831	2.8100 2832	2.8100 2833	4.0000 2834	4.0000 2835	4.0000
2836	4.0000 2837	4.0000 2838	4.0000 2839	4.0000 2840	2.8100
2841	2.8100 2842	2.8100 2843	2.8100 2844	2.8100 2845	2.8100
2846	2.8100 2847	2.8100 2848	2.8100 2849	1.0000 2850	0.3500
2851	0.2000 2852	0.2000 2853	2.0000 2854	3.5000 2855	1.5000
2856	1.5000 2857	4.0000 2858	1.5000 2859	1.5000 2860	1.5000
2861	1.5000 2862	1.5000 2863	2.0000 2864	4.0000 2865	4.0000
2866	4.0000 2867	2.8100 2868	2.8100 2869	2.8100 2870	2.8100
2871	2.8100 2872	2.8100 2873	2.8100 2874	2.8100 2875	2.8100
2876	2.8100 2877	2.8100 2878	2.8100 2879	4.0000 2880	4.0000
2881	4.0000 2882	4.0000 2883	4.0000 2884	4.0000 2885	4.0000
2886	4.0000 2887	4.0000 2888	4.0000 2889	4.0000 2890	4.0000
2891	2.8100 2892	2.8100 2893	2.8100 2894	4.0000 2895	1.0000
2896	0.3500 2897	0.2000 2898	0.5000 2899	2.0000 2900	1.5000
2901	1.5000 2902	4.0000 2903	1.5000 2904	1.5000 2905	1.5000
2906	1.5000 2907	1.5000 2908	1.5000 2909	4.0000 2910	4.0000
2911	2.8100 2912	2.8100 2913	2.8100 2914	2.8100 2915	2.8100
2916	2.8100 2917	2.8100 2918	2.8100 2919	2.8100 2920	2.8100
2921	2.8100 2922	2.8100 2923	2.8100 2924	4.0000 2925	4.0000
2926	4.0000 2927	4.0000 2928	4.0000 2929	4.0000 2930	4.0000
2931	4.0000 2932	4.0000 2933	4.0000 2934	4.0000 2935	2.8100

2936	2.8100 2937	2.8100 2938	4.0000 2939	4.0000 2940	0.5000
2941	0.3500 2942	0.3500 2943	0.5000 2944	2.0000 2945	3.0000
2946	4.0000 2947	1.5000 2948	1.5000 2949	1.5000 2950	1.5000
2951	1.5000 2952	3.0000 2953	4.0000 2954	2.8100 2955	2.8000
2956	2.8100 2957	2.8100 2958	2.8100 2959	2.8100 2960	2.8100
2961	2.8100 2962	2.8100 2963	2.8100 2964	2.8100 2965	2.8100
2966	2.8100 2967	2.8100 2968	2.8100 2969	4.0000 2970	4.0000
2971	4.0000 2972	4.0000 2973	4.0000 2974	4.0000 2975	4.0000
2976	4.0000 2977	4.0000 2978	4.0000 2979	4.0000 2980	2.8100
2981	2.8100 2982	4.0000 2983	4.0000 2984	3.0000 2985	0.5000
2986	0.5000 2987	0.5000 2988	1.5000 2989	1.5000 2990	4.0000
2991	1.5000 2992	1.5000 2993	1.5000 2994	1.5000 2995	1.5000
2996	1.5000 2997	2.8100 2998	2.8000 2999	2.8100 3000	2.8100
3001	2.8100 3002	2.8100 3003	2.8100 3004	2.8100 3005	2.8100
3006	2.8100 3007	2.8100 3008	2.8100 3009	2.8100 3010	2.8100
3011	2.8100 3012	4.0000 3013	4.0000 3014	4.0000 3015	4.0000
3016	4.0000 3017	4.0000 3018	4.0000 3019	2.8000 3020	4.0000
3021	4.0000 3022	4.0000 3023	4.0000 3024	2.8100 3025	4.0000
3026	4.0000 3027	4.0000 3028	0.5000 3029	0.5000 3030	0.5000
3031	0.5000 3032	1.5000 3033	1.5000 3034	1.5000 3035	1.5000
3036	1.5000 3037	1.5000 3038	1.5000 3039	2.8100 3040	2.8100
3041	2.8100 3042	2.8100 3043	2.8100 3044	2.8100 3045	2.8100
3046	2.8100 3047	2.8100 3048	2.8100 3049	2.8100 3050	2.8100
3051	2.8100 3052	2.8100 3053	4.0000 3054	4.0000 3055	4.0000
3056	4.0000 3057	4.0000 3058	4.0000 3059	4.0000 3060	2.8000
3061	2.8000 3062	4.0000 3063	4.0000 3064	1.5000 3065	2.8100
3066	3.0000 3067	4.0000 3068	3.0000 3069	0.5000 3070	0.5000
3071	0.5000 3072	0.5000 3073	0.5000 3074	1.5000 3075	0.5000
3076	1.5000 3077	1.5000 3078	1.5000 3079	2.8100 3080	2.8100
3081	2.8100 3082	2.8100 3083	2.8100 3084	2.8100 3085	2.8100
3086	2.8100 3087	2.8100 3088	2.8100 3089	2.8100 3090	2.8100
3091	2.8100 3092	3.0000 3093	4.0000 3094	4.0000 3095	4.0000
3096	4.0000 3097	4.0000 3098	4.0000 3099	2.8000 3100	2.8000
3101	4.0000 3102	4.0000 3103	1.5000 3104	1.5000 3105	3.0000
3106	1.5000 3107	0.5000 3108	0.5000 3109	0.5000 3110	0.5000
3111	0.5000 3112	0.5000 3113	1.5000 3114	0.5000 3115	1.5000
3116	1.5000 3117	2.8100 3118	2.8100 3119	2.8100 3120	2.8100
3121	2.8100 3122	2.8100 3123	2.8100 3124	2.8100 3125	2.8100
3126	2.8100 3127	2.8100 3128	2.8100 3129	3.0000 3130	4.0000
3131	4.0000 3132	4.0000 3133	4.0000 3134	4.0000 3135	4.0000
3136	0.5000 3137	0.5000 3138	2.8000 3139	4.0000 3140	1.5000
3141	1.5000 3142	1.5000 3143	1.5000 3144	0.5000 3145	0.5000
3146	0.5000 3147	0.5000 3148	0.5000 3149	0.5000 3150	0.5000
3151	0.5000 3152	0.5000 3153	2.8100 3154	2.8100 3155	2.8100
3156	2.8100 3157	2.8100 3158	2.8100 3159	2.8100 3160	2.8100
3161	2.8100 3162	2.8100 3163	2.8100 3164	1.5000 3165	0.5000
3166	0.5000 3167	0.5000 3168	0.5000 3169	0.5000 3170	0.5000
3171	0.5000 3172	0.5000 3173	0.5000 3174	0.5000 3175	1.0000
3176	1.5000 3177	1.5000 3178	0.5000 3179	0.5000 3180	0.5000
3181	0.5000 3182	0.5000 3183	0.5000 3184	0.5000 3185	0.5000
3186	0.5000 3187	1.5000 3188	1.5000 3189	1.5000 3190	2.8100
3191	1.5000 3192	2.8100 3193	2.8100 3194	2.8100 3195	2.8100
3196	2.8100 3197	0.5000 3198	0.5000 3199	1.5000 3200	1.5000
3201	1.5000 3202	1.5000 3203	0.5000 3204	0.5000 3205	0.5000
3206	0.5000 3207	0.5000 3208	1.0000 3209	0.5000 3210	0.5000
3211	0.5000 3212	0.5000 3213	0.5000 3214	0.5000 3215	0.5000
3216	0.5000 3217	0.5000 3218	1.0000 3219	1.0000 3220	1.0000
3221	1.5000 3222	1.0000 3223	2.8100 3224	1.5000 3225	1.5000
3226	2.8100 3227	1.5000 3228	0.5000 3229	0.5000 3230	1.5000
3231	1.5000 3232	1.5000 3233	1.5000 3234	1.5000 3235	0.5000
3236	0.5000 3237	0.5000 3238	0.5000 3239	0.5000 3240	0.5000
3241	0.5000 3242	0.5000 3243	0.5000 3244	0.5000 3245	0.5000
3246	0.5000 3247	1.5000 3248	5.0000 3249	3.0000 3250	2.8100
3251	5.0000 3252	1.5000 3253	3.0000 3254	1.5000 3255	1.5000
3256	1.5000 3257	0.5000 3258	0.5000 3259	0.5000 3260	0.5000
3261	0.5000 3262	1.5000 3263	2.8100 3264	1.5000 3265	1.5000
3266	1.5000 3267	0.5000 3268	0.5000 3269	0.5000 3270	0.5000
3271	0.5000 3272	0.5000 3273	0.5000 3274	3.0000 3275	3.0000
3276	3.0000 3277	5.0000 3278	3.0000 3279	3.0000 3280	2.8100
3281	3.0000 3282	1.5000 3283	3.0000 3284	0.5000 3285	0.5000
3286	0.5000 3287	0.5000 3288	1.5000 3289	1.5000 3290	1.5000
3291	1.5000 3292	1.5000 3293	0.5000 3294	0.5000 3295	0.5000
3296	0.5000 3297	0.5000 3298	0.5000 3299	3.0000 3300	3.0000
3301	3.0000 3302	3.0000 3303	3.0000 3304	3.0000 3305	3.0000
3306	3.0000 3307	3.0000 3308	0.5000 3309	0.5000 3310	0.5000
3311	1.5000 3312	1.5000 3313	1.5000 3314	1.5000 3315	0.5000
3316	0.5000 3317	0.5000 3318	0.5000 3319	0.5000 3320	1.5000
3321	3.0000 3322	3.0000 3323	3.0000 3324	3.0000 3325	0.5000
3326	1.5000 3327	1.5000 3328	1.5000 3329	1.5000 3330	1.5000
3331	1.5000 3332	1.5000 3333	1.5000 3334	1.5000 3335	1.5000
3336	3.0000 3337	3.0000 3338	1.5000 3339	1.5000 3340	1.5000
3341	1.5000 3342	1.5000 3343	1.5000 3344	1.5000 3345	2.8100

3346 3.0000 3347 3.0000 3348 1.5000 3349 1.5000 3350 1.5000
 3351 1.5000 3352 1.5000 3353 1.5000 3354 3.0000 3355 1.5000
 3356 1.5000 3357 1.5000 3358 1.5000 3359 1.5000
 STORAGE COEFF. ARRAY: INP,SFCT (I2,F10.0); NODE, STORAGE (5(I5,F10.0))
 0 0.000000
 INITIAL HEAD ARRAY: INP,SFCT (I2,F10.0); NODE, HEAD (FT) (5(I5,F10.0))
 1 1.0000
 1 5096.6416 2 5096.9222 3 5096.0072 4 5097.2566 5 5096.1058
 6 5095.4489 7 5097.5197 8 5096.4103 9 5095.5517 10 5094.9426
 11 5098.1018 12 5097.4000 13 5095.7237 14 5095.0452 15 5094.5582
 16 5094.6151 17 5098.7487 18 5097.1177 19 5095.8701 20 5095.1945
 21 5094.7364 22 5094.2898 23 5094.3969 24 5099.6407 25 5097.5819
 26 5096.1891 27 5095.4000 28 5094.8695 29 5094.4950 30 5093.8055
 31 5094.0408 32 5100.7049 33 5098.4969 34 5096.6158 35 5095.5290
 36 5094.9972 37 5094.6841 38 5094.2342 39 5093.0204 40 5093.4629
 41 5101.2944 42 5099.5577 43 5097.1556 44 5095.7473 45 5095.2060
 46 5094.8395 47 5094.5189 48 5093.7911 49 5092.0584 50 5092.9724
 51 5102.0816 52 5100.5874 53 5098.1000 54 5096.1319 55 5095.3406
 56 5095.0299 57 5094.7682 58 5094.2201 59 5093.4537 60 5091.9879
 61 5092.42 62 5102.5952 63 5101.3349 64 5100.1215 65 5097.2687
 66 5096.4186 67 5095.2875 68 5094.9906 69 5094.7538 70 5093.69
 71 5092.8689 72 5091.7190 73 5091.9577 74 5103.0545 75 5101.6677
 76 5100.7341 77 5099.0190 78 5098.8655 79 5096.7758 80 5095.2894
 81 5094.9846 82 5094.5922 83 5093.6887 84 5092.4709 85 5091.2493
 86 5091.6292 87 5103.8159 88 5102.5153 89 5100.7280 90 5100.3641
 91 5101.4928 92 5099.6511 93 5098.3000 94 5095.9851 95 5095.2630
 96 5094.5672 97 5093.4982 98 5092.2104 99 5091.0390 100 5091.2684
 101 5104.5460 102 5103.9183 103 5101.8840 104 5100.7657 105 5090.7376
 106 5090.7118 107 5090.6264 108 5090.4775 109 5090.3755 110 5090.5518
 111 5090.7060 112 5090.6289 113 5090.6759 114 5091.0854 115 5091.7825
 116 5091.7667 117 5092.1056 118 5092.9925 119 5095.7855 120 5096.5672
 121 5098.9009 122 5100.0793 123 5100.0875 124 5100.1844 125 5101.4691
 126 5103.3603 127 5104.3199 128 5105.1740 129 5105.2526 130 5106.2501
 131 5106.9484 132 5107.4545 133 5107.8327 134 5108.7454 135 5108.6177
 136 5108.6163 137 5108.9217 138 5109.4748 139 5110.0195 140 5110.6026
 141 5112.4271 142 5114.6155 143 5105.0312 144 5103.9725 145 5102.3584
 146 5099.3070 147 5096.8488 148 5095.8335 149 5094.7474 150 5093.6215
 151 5091.7780 152 5091.0512 153 5105.1967 154 5105.2292 155 5105.1098
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 266 5094.7293 267 5096.6665 268 5097.9405 269 5099.7300 270 5100.5131
 271 5101.8953 272 5102.7319 273 5103.7041 274 5104.3600 275 5105.0204
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2145 0 2146 0 2147 0 2148 0 2149 0 2150 0 2151 0 2152 0
2153 0 2154 0 2155 0 2156 0 2157 0 2158 0 2159 0 2160 0
2161 0 2162 0 2163 0 2164 0 2165 0 2166 0 2167 0 2168 0
2169 0 2170 0 2171 0 2172 0 2173 0 2174 0 2175 0 2176 0
2177 35048 2178 0 2179 0 2180 0 2181 0 2182 0 2183 52 2184 0
2185 0 2186 0 2187 0 2188 0 2189 118 2190 26063 2191 0 2192 0
2193 0 2194 0 2195 0 2196 0 2197 0 2198 12 2199 0 2200 53
2201 0 2202 54 2203 0 2204 55 2205 0 2206 56 2207 57 2208 0
2209 0 2210 0 2211 0 2212 0 2213 0 2214 26010 2215 0 2216 0
2217 0 2218 0 2219 0 2220 0 2221 0 2222 0 2223 0 2224 0
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2233 0 2234 0 2235 0 2236 0 2237 0 2238 0 2239 0 2240 0
2241 0 2242 0 2243 0 2244 0 2245 0 2246 0 2247 0 2248 0
2249 0 2250 0 2251 0 2252 0 2253 0 2254 119 2255 0 2256 0
2257 0 2258 0 2259 0 2260 0 2261 0 2262 0 2263 0 2264 0
2265 0 2266 0 2267 0 2268 0 2269 0 2270 0 2271 0 2272 0
2273 0 2274 0 2275 0 2276 0 2277 0 2278 0 2279 0 2280 0
2281 0 2282 0 2283 0 2284 0 2285 0 2286 0 2287 0 2288 0
2289 0 2290 0 2291 0 2292 0 2293 26046 2294 0 2295 0 2296 0
2297 0 2298 0 2299 0 2300 23188 2301 0 2302 0 2303 0 2304 0
2305 0 2306 0 2307 0 2308 0 2309 0 2310 0 2311 0 2312 0
2313 0 2314 0 2315 0 2316 0 2317 0 2318 120 2319 0 2320 0
2321 0 2322 0 2323 0 2324 0 2325 0 2326 0 2327 0 2328 0
2329 0 2330 0 2331 0 2332 0 2333 0 2334 0 2335 0 2336 0
2337 0 2338 13 2339 0 2340 0 2341 0 2342 0 2343 0 2344 0
2345 0 2346 0 2347 0 2348 0 2349 0 2350 0 2351 0 2352 0
2353 0 2354 0 2355 0 2356 0 2357 0 2358 0 2359 0 2360 0
2361 0 2362 0 2363 0 2364 0 2365 0 2366 0 2367 0 2368 0
2369 0 2370 0 2371 0 2372 0 2373 0 2374 0 2375 0 2376 0
2377 0 2378 0 2379 0 2380 0 2381 0 2382 121 2383 0 2384 0
2385 0 2386 0 2387 0 2388 0 2389 0 2390 0 2391 0 2392 0
2393 0 2394 23013 2395 0 2396 0 2397 0 2398 0 2399 0 2400 0
2401 0 2402 0 2403 0 2404 0 2405 0 2406 0 2407 0 2408 0
2409 0 2410 0 2411 0 2412 0 2413 0 2414 0 2415 0 2416 0
2417 0 2418 0 2419 0 2420 26173 2421 0 2422 0 2423 0 2424 0

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2425	0 2426	0 2427	0 2428	0 2429	0 2430	0 2431	0 2432	0
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2441	0 2442	0 2443	0 2444	0 2445	122 2446	0 2447	0 2448	0
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2465	14 2466	0 2467	0 2468	0 2469	0 2470	0 2471	0 2472	0
2473	0 2474	0 2475	0 2476	0 2477	0 2478	0 2479	0 2480	0
2481	0 2482	0 2483	0 2484	0 2485	0 2486	0 2487	45 2488	0
248923179	2490	0 2491	0 2492	0 2493	0 2494	0 2495	0 2496	0
2497	0 2498	0 2499	0 2500	0 2501	0 2502	0 2503	0 2504	123
2505	0 2506	0 2507	0 2508	0 2509	0 2510	0 2511	0 2512	0
2513	0 2514	0 2515	0 2516	0 2517	0 251826085	2519	0 2520	0
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2553	0 2554	0 2555	0 2556	0 2557	0 2558	0 2559	0 2560	0
2561	0 2562	124 2563	0 2564	0 2565	0 2566	0 2567	0 2568	0
2569	0 2570	0 2571	0 2572	0 2573	0 2574	0 2575	0 2576	0
2577	0 2578	0 2579	0 2580	0 2581	15 2582	0 2583	0 2584	0
2585	0 2586	0 2587	0 2588	0 2589	0 2590	0 2591	0 2592	0
2593	0 2594	0 2595	0 2596	0 2597	0 2598	0 2599	0 2600	0
2601	0 2602	0 2603	0 2604	0 2605	0 2606	0 2607	0 2608	0
2609	0 2610	0 2611	0 2612	0 2613	0 2614	0 2615	0 2616	0
2617	0 2618	0 2619	125 2620	0 2621	0 2622	0 2623	0 2624	0
2625	0 2626	0 2627	0 2628	0 2629	0 2630	0 2631	0 2632	0
2633	0 2634	0 2635	0 2636	0 2637	16 2638	0 2639	0 2640	0
2641	0 2642	0 2643	0 2644	0 2645	0 2646	0 2647	0 2648	0
2649	0 2650	0 2651	0 2652	0 2653	0 2654	0 2655	0 2656	0
2657	0 2658	0 2659	0 2660	0 2661	0 2662	0 2663	0 2664	0
2665	0 2666	0 2667	0 2668	0 2669	0 2670	0 2671	0 2672	0
2673	126 2674	0 2675	0 2676	0 2677	0 2678	0 2679	0 2680	0
2681	0 2682	0 2683	0 2684	0 2685	0 2686	0 2687	0 2688	17
2689	0 2690	0 2691	0 2692	0 2693	0 2694	0 2695	0 2696	0
2697	0 2698	0 2699	0 2700	0 2701	0 2702	0 2703	0 2704	0
2705	0 2706	0 2707	0 2708	0 2709	0 271026159	2711	0 2712	0
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2721	0 2722	0 2723	127 2724	0 2725	0 2726	0 2727	0 2728	0
2729	0 2730	0 2731	0 2732	0 2733	0 2734	0 2735	0 2736	0
2737	18 2738	0 2739	0 2740	0 2741	0 2742	0 2743	0 2744	0
2745	0 2746	0 2747	0 2748	0 274926040	2750	0 2751	0 2752	0
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2761	0 2762	0 2763	0 2764	0 2765	0 2766	0 2767	0 2768	0
2769	0 2770	128 2771	0 2772	0 2773	0 2774	0 2775	0 2776	0
2777	0 2778	0 2779	0 2780	0 2781	0 2782	0 2783	0 278423122	
2785	0 2786	0 2787	0 2788	0 2789	0 2790	0 2791	0 2792	0
2793	0 2794	0 2795	0 2796	0 2797	0 2798	0 2799	0 2800	0
2801	0 2802	0 2803	0 2804	0 2805	0 2806	0 2807	0 2808	0
2809	0 2810	0 2811	0 281225022	2813	0 2814	0 2815	0 2816	0
2817	129 2818	0 2819	0 2820	0 2821	0 2822	0 2823	0 282423134	
2825	0 2826	0 2827	0 2828	0 2829	19 2830	0 2831	0 2832	0
2833	0 2834	0 2835	0 2836	0 2837	0 2838	0 2839	0 2840	0
2841	0 2842	0 2843	0 2844	0 2845	0 284626170	2847	0 2848	0
284926073	2850	0 2851	0 2852	0 2853	0 2854	0 2855	0 2856	0
2857	0 2858	0 2859	0 2860	0 2861	0 2862	0 2863	130 2864	0
2865	0 2866	0 2867	0 2868	0 2869	0 2870	0 2871	0 2872	0
2873	0 2874	20 2875	21 2876	0 2877	22 2878	0 2879	0 2880	0
2881	0 2882	0 2883	0 2884	0 2885	0 2886	0 2887	0 2888	0
2889	0 2890	0 2891	0 2892	0 2893	0 2894	0 2895	0 2896	0
2897	0 2898	0 2899	0 2900	0 2901	0 2902	0 2903	0 2904	0
2905	0 2906	0 2907	0 2908	131 2909	0 2910	0 2911	0 2912	0
2913	0 2914	0 2915	0 2916	0 2917	0 2918	0 2919	23 2920	0
2921	0 2922	24 2923	0 2924	0 2925	0 2926	0 2927	0 2928	0
2929	0 2930	0 2931	0 2932	0 2933	0 2934	0 2935	0 2936	0
2937	0 2938	0 2939	0 2940	0 2941	0 2942	0 2943	0 2944	0
2945	0 2946	0 2947	0 2948	0 2949	0 2950	0 2951	0 2952	132
2953	0 2954	0 2955	0 2956	0 2957	0 295823223	2959	0 2960	0
2961	0 2962	0 2963	25 2964	0 2965	0 2966	26 2967	0 2968	0
2969	0 2970	0 2971	0 2972	0 2973	0 2974	0 2975	0 2976	0
2977	0 2978	0 2979	0 2980	0 2981	0 2982	0 2983	0 2984	0
2985	0 2986	0 2987	0 2988	0 2989	0 2990	0 2991	0 2992	0
2993	0 2994	0 2995	0 2996	133 2997	0 2998	0 2999	0 3000	0
3001	0 3002	0 3003	0 3004	0 3005	0 3006	0 3007	27 3008	0
3009	28 3010	134 3011	29 3012	0 3013	0 3014	0 3015	0 3016	0
3017	0 3018	0 3019	0 3020	0 3021	0 3022	0 3023	0 3024	0
3025	0 3026	0 3027	0 3028	0 3029	0 3030	0 3031	0 3032	0
3033	0 3034	0 3035	0 3036	0 3037	0 3038	135 303923096	3040	0
3041	0 3042	0 3043	0 3044	0 3045	0 3046	0 3047	0 3048	0
3049	0 3050	0 3051	136 3052	0 3053	0 3054	0 3055	0 3056	0
3057	0 3058	0 3059	0 3060	0 3061	0 3062	0 3063	0 3064	0
3065	0 3066	0 3067	0 3068	0 3069	0 3070	0 3071	0 3072	0
3073	0 3074	0 3075	0 3076	0 3077	0 3078	137 3079	0 3080	0


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3081 0 3082 0 3083 0 3084 0 3085 0 3086 0 3087 0 3088 0
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3097 0 3098 0 3099 0 3100 0 3101 0 3102 0 3103 0 3104 0
310526143 3106 0 3107 0 3108 0 3109 0 3110 0 3111 0 3112 0
3113 0 3114 0 3115 0 3116 139 3117 0 3118 0 3119 0 3120 0
3121 0 3122 0 3123 0 3124 0 3125 0 3126 0 3127 140 3128 0
3129 0 3130 0 3131 0 3132 0 3133 0 3134 0 3135 0 3136 0
313726124 3138 0 3139 0 3140 0 3141 0 3142 0 3143 0 3144 0
3145 0 3146 0 3147 0 3148 0 3149 0 3150 0 3151 0 3152 141
3153 0 3154 0 315524010 3156 0 3157 0 3158 0 3159 0 3160 0
3161 0 3162 142 3163 0 3164 0 3165 0 3166 0 3167 0 3168 0
3169 0 3170 0 3171 0 3172 0 3173 0 3174 0 3175 0 3176 0
3177 0 3178 0 3179 0 3180 0 3181 0 3182 0 3183 0 3184 0
3185 0 3186 143 3187 0 3188 0 3189 0 3190 0 3191 0 3192 0
3193 0 319424092 3195 144 3196 0 3197 0 3198 0 3199 0 3200 0
3201 0 3202 0 3203 0 3204 0 3205 0 3206 0 3207 0 3208 0
3209 0 3210 0 3211 0 3212 0 3213 0 3214 145 3215 0 3216 0
3217 0 321824122 3219 0 3220 0 3221 0 3222 0 3223 0 3224 0
3225 0 3226 146 3227 0 3228 0 3229 0 3230 0 3231 0 3232 0
3233 0 3234 0 3235 0 3236 0 3237 0 3238 0 3239 0 3240 0
3241 0 3242 0 3243 0 3244 147 3245 0 3246 0 3247 0 3248 0
3249 0 3250 0 3251 0 3252 0 3253 0 3254 0 3255 148 3256 0
3257 0 3258 0 3259 0 3260 0 3261 0 3262 0 3263 0 3264 0
3265 0 3266 0 3267 0 3268 0 3269 0 3270 0 3271 0 3272 149
3273 0 3274 0 3275 0 3276 0 3277 0 3278 0 3279 0 3280 0
3281 0 3282 150 3283 0 3284 0 3285 0 3286 0 328725028 3288 0
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3297 0 3298 151 3299 0 3300 0 3301 0 3302 0 3303 0 3304 0
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3329 0 3330 0 3331 0 3332 0 3333 155 3334 0 3335 0 3336 0
3337 156 3338 0 3339 0 3340 0 3341 0 3342 0 3343 0 3344 157
3345 0 3346 0 3347 158 3348 0 3349 0 3350 0 3351 0 3352 159
3353 0 3354 160 3355 0 3356 0 3357 161 3358 162 3359 163

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NODE ID DEFINITIONS: ID, RECH.(GPM), DRCOND (FT**2/DAY), DRELEV, (I5,3F10.0)

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1 0.00000 0.000 0.00
2 0.00000 0.000 0.00
3 0.00000 0.000 0.00
4 0.00000 0.000 0.00
5 0.00000 0.000 0.00
6 0.00000 0.000 0.00
7 0.00000 0.000 0.00
8 0.00000 0.000 0.00
9 0.00000 0.000 0.00
10 0.00000 0.000 0.00
11 0.00200 0.000 0.00
12 0.00100 0.000 0.00
13 4.40100 0.000 0.00
14 0.40500 0.000 0.00
15 4.35600 0.000 0.00
16 1.23800 0.000 0.00
17 0.19000 0.000 0.00
18 3.76200 0.000 0.00
19 7.45200 0.000 0.00
20 1.79400 0.000 0.00
21 10.67100 0.000 0.00
22 16.54600 0.000 0.00
23 6.37000 0.000 0.00
24 4.40100 0.000 0.00
25 3.71200 0.000 0.00
26 4.72800 0.000 0.00
27 1.12600 0.000 0.00
28 4.42100 0.000 0.00
29 9.21900 0.000 0.00
30 0.02000 0.000 0.00
31 14.17000 0.000 0.00
32 6.72000 0.000 0.00
33 5.16000 0.000 0.00
34 22.34000 0.000 0.00
35 0.00000 0.000 0.00
36 0.00000 0.000 0.00
37 26.53000 0.000 0.00
38 96.15500 0.000 0.00
39 26.95000 0.000 0.00
40 33.78500 0.000 0.00
41 82.86000 0.000 0.00
42 2.09900 0.000 0.00
43 8.18600 0.000 0.00
44 4.18100 0.000 0.00
45 2.00000 0.000 0.00
46 -1.37220 0.000 0.00

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47	-1.37220	0.000	0.00
48	-1.37220	0.000	0.00
49	-1.37220	0.000	0.00
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51	-1.37220	0.000	0.00
52	-1.37220	0.000	0.00
53	-1.37220	0.000	0.00
54	-1.37220	0.000	0.00
55	-1.37220	0.000	0.00
56	-1.37220	0.000	0.00
57	-1.37220	0.000	0.00
58	-23.20311	0.000	0.00
59	-32.59635	0.000	0.00
60	10.43251	0.000	0.00
61	-10.66527	0.000	0.00
62	13.99796	0.000	0.00
63	-14.66118	0.000	0.00
64	-128.92235	0.000	0.00
65	-49.29010	0.000	0.00
66	-74.88134	0.000	0.00
67	-47.90265	0.000	0.00
68	-33.75900	0.000	0.00
69	-17.15627	0.000	0.00
70	-10.84279	0.000	0.00
71	0.08778	0.000	0.00
72	-0.91838	0.000	0.00
73	-1.26183	0.000	0.00
74	2.89217	0.000	0.00
75	-3.65212	0.000	0.00
76	-0.82462	0.000	0.00
77	1.15807	0.000	0.00
78	0.04578	0.000	0.00
79	1.50739	0.000	0.00
80	0.67440	0.000	0.00
81	-0.30926	0.000	0.00
82	0.48161	0.000	0.00
83	1.78905	0.000	0.00
84	2.36220	0.000	0.00
85	4.32788	0.000	0.00
86	-0.70411	0.000	0.00
87	14.83922	0.000	0.00
88	-9.34534	0.000	0.00
89	-2.06994	0.000	0.00
90	0.43317	0.000	0.00
91	-3.32842	0.000	0.00
92	1.02510	0.000	0.00
93	-12.06293	0.000	0.00
94	-2.42988	0.000	0.00
95	-0.20277	0.000	0.00
96	-0.14065	0.000	0.00
97	-0.03595	0.000	0.00
98	0.02014	0.000	0.00
99	0.04814	0.000	0.00
100	0.03351	0.000	0.00
101	0.00319	0.000	0.00
102	-0.11040	0.000	0.00
103	-0.21168	0.000	0.00
104	-0.84220	0.000	0.00
105	-1.25172	0.000	0.00
106	-1.76521	0.000	0.00
107	-2.12352	0.000	0.00
108	-1.14096	0.000	0.00
109	-1.60693	0.000	0.00
110	-0.81172	0.000	0.00
111	-0.96258	0.000	0.00
112	-1.32251	0.000	0.00
113	-0.37529	0.000	0.00
114	-0.19330	0.000	0.00
115	0.17916	0.000	0.00
116	-0.03592	0.000	0.00
117	0.30297	0.000	0.00
118	0.05533	0.000	0.00
119	-0.07739	0.000	0.00
120	0.22357	0.000	0.00
121	0.07446	0.000	0.00
122	0.01886	0.000	0.00
123	0.08251	0.000	0.00
124	0.03870	0.000	0.00
125	-0.00964	0.000	0.00
126	0.12024	0.000	0.00
127	0.08606	0.000	0.00
128	0.06078	0.000	0.00

129	0.05720	0.000	0.00
130	-0.01410	0.000	0.00
131	-0.00386	0.000	0.00
132	0.01421	0.000	0.00
133	0.03494	0.000	0.00
134	39.23580	0.000	0.00
135	0.00009	0.000	0.00
136	-36.68778	0.000	0.00
137	0.07398	0.000	0.00
138	-0.23079	0.000	0.00
139	0.09306	0.000	0.00
140	-12.83460	0.000	0.00
141	0.06554	0.000	0.00
142	-9.88016	0.000	0.00
143	0.05595	0.000	0.00
144	-10.22465	0.000	0.00
145	-0.01773	0.000	0.00
146	-3.35205	0.000	0.00
147	0.05104	0.000	0.00
148	-3.43141	0.000	0.00
149	0.04181	0.000	0.00
150	-1.95707	0.000	0.00
151	-0.01034	0.000	0.00
152	-0.93717	0.000	0.00
153	-0.13829	0.000	0.00
154	-0.25992	0.000	0.00
155	-0.35574	0.000	0.00
156	-0.09060	0.000	0.00
157	-0.38049	0.000	0.00
158	0.16756	0.000	0.00
159	-0.29091	0.000	0.00
160	-0.00831	0.000	0.00
161	-0.24350	0.000	0.00
162	-0.23695	0.000	0.00
163	-0.22881	0.000	0.00

GHB CONDITIONS: NUMBS (15)

0

OBSERVED HEAD DATA(WELL NODEID,OBSERVED HEAD)(I10,F10.0)

74

22012	5143.500
22025	5109.270
22043	5092.420
22049	5110.360
22052	5090.940
22054	5111.900
23013	5141.020
23058	5140.120
23085	5139.600
23096	5140.500
23122	5136.300
23134	5139.820
23135	5145.000
23150	5139.100
23179	5140.260
23182	5112.800
23185	5144.700
23188	5140.150
23191	5140.370
23223	5138.800
24010	5140.200
24092	5139.100
24122	5157.060
24200	5138.170
25022	5213.780
25028	5180.400
26010	5161.950
26015	5144.520
26017	5145.190
26020	5149.170
26040	5147.030
26041	5145.370
26046	5145.300
26049	5150.710
26050	5156.970
26062	5163.070
26063	5183.160
26065	5161.700
26068	5158.960
26073	5176.950
26076	5151.190
26081	5148.000
26083	5150.200

26085 5179.380
26088 5142.910
26124 5154.310
26133 5146.140
26143 5174.730
26159 5201.040
26160 5143.900
26166 5151.440
26168 5155.510
26169 5148.090
26170 5140.770
26173 5147.710
27003 5097.700
27017 5148.100
27019 5148.530
27024 5125.800
27040 5120.800
27041 5113.700
27051 5128.300
27056 5098.400
27059 5127.300
27064 5093.690
27072 5095.800
27073 5097.900
27080 5120.000
27084 5136.400
35031 5174.210
35040 5165.080
35048 5216.780
35079 5197.980
35091 5182.200

Appendix C

Transient Calibration Input File

```

WES MESH
NTIM, NPMP, PINT, PRINTIT, TIMX, TINIT (2IS, F10.0, 4X, A1, 2F10.0)
100 6 90.00 Y 1.500 3600.000
SIMULATION OPTION IFLAG1(I) - (0=CONFINED, 1=UNCONFINED & 3=M ODIFIED ONE LAYER MODEL)
3
SIMULATION OPTION IFLAG2, TOL, RELAX (I1, 2F10.0) - (0=GAUSS & 1=PISOR)
0 0.000000 0.000000
SIMULATION OPTION IFLAG3 (I1) - (0=GWFLOW DATA & 1=GWTRAN DATA)
0
NUMNP, NUMEL, IBAND (3IS)
3359 6466 69
NODAL COORDINATES: FCTR (F10.0); NODE, X, Y (3(I5, 2F10.0))
400.000
1 0.000 17.540 2 0.432 17.169 3 0.800 18.411
4 0.861 16.801 5 1.239 18.038 6 1.550 19.250
7 1.287 16.435 8 1.676 17.666 9 1.991 18.875
10 2.250 20.056 11 1.709 16.071 12 1.700 16.737
13 2.432 18.500 14 2.689 19.681 15 2.900 20.830
16 3.333 20.455 17 2.129 15.710 18 2.546 16.924
19 2.500 17.490 20 3.130 19.303 21 3.769 20.076
22 3.385 21.360 23 3.831 20.961 24 2.545 15.351
25 2.979 16.556 26 3.315 17.749 27 3.648 18.770
28 4.209 19.695 29 4.278 20.560 30 3.841 21.860
31 4.299 21.437 32 2.958 14.995 33 3.410 16.188
34 3.757 17.373 35 4.018 18.544 36 4.653 19.311
37 4.729 20.157 38 4.759 21.014 39 4.267 22.330
40 4.739 21.885 41 3.367 14.641 42 3.840 15.821
43 4.199 16.997 44 4.464 18.163 45 5.100 18.924
46 5.181 19.752 47 5.220 20.591 48 5.212 21.441
49 4.663 22.771 50 5.150 22.304 51 3.774 14.290
52 4.268 15.455 53 4.485 16.708 54 4.913 17.779
55 5.551 18.535 56 5.637 19.346 57 5.683 20.166
58 5.684 20.997 59 5.636 21.839 60 5.030 23.182
61 5.253 22.980 62 4.177 13.941 63 4.695 15.091
64 5.084 16.244 65 5.364 17.395 66 6.006 18.142
67 6.094 18.938 68 6.147 19.741 69 6.157 20.552
70 5.963 21.392 71 6.031 22.208 72 5.367 23.563
73 5.884 23.054 74 4.577 13.594 75 5.120 14.727
76 5.527 15.868 77 5.816 17.008 78 6.464 17.747
79 6.555 18.528 80 6.612 19.315 81 6.630 20.109
82 6.604 20.911 83 6.528 21.724 84 6.398 22.549
85 5.674 23.915 86 6.208 23.386 87 4.974 13.250
88 5.544 14.365 89 5.970 15.491 90 6.271 16.620
91 6.926 17.349 92 7.017 18.116 93 7.305 19.052
94 7.103 19.665 95 7.086 20.450 96 7.023 21.243
97 6.908 22.046 98 6.736 22.861 99 5.952 24.237
100 6.502 23.689 101 5.368 12.908 102 5.966 14.004
103 6.413 15.114 104 6.727 16.231 105 6.200 24.530
106 6.335 24.677 107 6.468 24.824 108 6.601 24.970
109 6.733 25.115 110 6.864 25.259 111 6.993 25.403
112 7.122 25.546 113 7.251 25.689 114 7.378 25.831
115 7.504 25.972 116 7.629 26.112 117 7.754 26.252
118 7.877 26.391 119 8.000 26.530 120 8.122 26.668
121 8.242 26.805 122 8.362 26.942 123 8.481 27.078
124 8.599 27.213 125 8.716 27.347 126 8.833 27.481
127 8.948 27.614 128 9.062 27.747 129 9.176 27.879
130 9.288 28.010 131 9.400 28.141 132 9.510 28.271
133 9.620 28.400 134 10.123 28.982 135 10.618 29.553
136 11.104 30.112 137 11.583 30.660 138 12.055 31.197
139 12.518 31.722 140 12.973 32.236 141 13.420 32.739

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142	13.860	33.230	143	7.391	16.948	144	7.482	17.702
145	7.545	18.460	146	7.575	19.222	147	7.567	19.989
148	7.515	20.764	149	7.415	21.547	150	7.260	22.341
151	7.046	23.145	152	6.767	23.962	153	5.758	12.569
154	6.387	13.644	155	6.857	14.736	156	7.186	15.840
157	6.548	24.520	158	7.008	24.296	159	7.127	24.461
160	6.855	24.945	161	7.363	24.789	162	7.479	24.951
163	7.265	25.413	164	7.710	25.273	165	7.825	25.432
166	7.678	25.883	167	8.051	25.748	168	8.162	25.905
169	8.273	26.060	170	8.090	26.373	171	8.493	26.369
172	8.602	26.521	173	8.443	26.870	174	8.816	26.824
175	8.923	26.973	176	9.028	27.122	177	9.132	27.270
178	9.236	27.417	179	9.203	27.718	180	9.441	27.707
181	9.543	27.851	182	9.643	27.994	183	9.743	28.136
184	9.842	28.277	185	10.336	28.872	186	10.822	29.456
187	11.300	30.029	188	11.770	30.590	189	12.233	31.141
190	12.688	31.680	191	13.135	32.208	192	13.574	32.724
193	14.006	33.230	194	7.861	16.544	195	7.950	17.287
196	8.014	18.031	197	8.048	18.778	198	8.047	19.530
199	8.006	20.287	200	7.918	21.051	201	7.779	21.824
202	7.584	22.607	203	7.327	23.400	204	7.435	23.587
205	6.146	12.232	206	6.806	13.285	207	7.300	14.359
208	7.646	15.448	209	7.541	23.773	210	7.647	23.958
211	7.752	24.141	212	7.856	24.323	213	7.960	24.504
214	8.063	24.683	215	8.165	24.861	216	8.267	25.038
217	8.368	25.214	218	8.468	25.388	219	8.567	25.561
220	8.666	25.732	221	8.764	25.903	222	8.862	26.072
223	8.958	26.240	224	9.054	26.406	225	9.150	26.572
226	9.244	26.736	227	9.338	26.898	228	9.431	27.060
229	9.524	27.220	230	9.616	27.379	231	9.707	27.536
232	9.797	27.693	233	9.887	27.847	234	9.976	28.001
235	10.064	28.154	236	10.549	28.762	237	11.027	29.359
238	11.497	29.945	239	11.958	30.520	240	12.413	31.084
241	12.859	31.637	242	13.298	32.179	243	13.729	32.710
244	14.152	33.230	245	8.334	16.137	246	8.420	16.869
247	8.484	17.602	248	8.521	18.335	249	8.526	19.072
250	8.494	19.813	251	8.418	20.559	252	8.294	21.312
253	8.117	22.074	254	7.881	22.845	255	7.974	23.052
256	7.945	23.494	257	6.530	11.897	258	7.224	12.927
259	8.115	14.355	260	8.108	15.054	261	8.160	23.460
262	8.253	23.662	263	8.344	23.863	264	8.435	24.061
265	8.526	24.258	266	8.615	24.454	267	8.705	24.648
268	8.793	24.840	269	8.881	25.031	270	8.969	25.220
271	9.055	25.408	272	9.142	25.594	273	9.227	25.778
274	9.313	25.961	275	9.397	26.142	276	9.481	26.322
277	9.564	26.500	278	9.647	26.676	279	9.729	26.851
280	9.811	27.024	281	9.892	27.196	282	9.972	27.366
283	10.052	27.534	284	10.131	27.701	285	10.210	27.866
286	10.490	28.442	287	10.764	28.651	288	11.233	29.261
289	11.694	29.861	290	12.147	30.450	291	12.593	31.027
292	13.031	31.594	293	13.462	32.150	294	13.884	32.696
295	14.300	33.230	296	8.810	15.728	297	8.892	16.450
298	8.955	17.171	299	8.994	17.892	300	9.004	18.615
301	8.979	19.340	302	8.914	20.070	303	8.804	20.804
304	8.643	21.546	305	8.426	22.296	306	8.507	22.522
307	8.588	22.746	308	8.668	22.968	309	6.911	11.565
310	7.641	12.570	311	8.189	13.603	312	8.572	14.658
313	8.747	23.189	314	8.826	23.407	315	8.905	23.624
316	8.983	23.838	317	9.061	24.051	318	9.138	24.262
319	9.214	24.471	320	9.291	24.678	321	9.366	24.883
322	9.442	25.086	323	9.516	25.288	324	9.591	25.487
325	9.664	25.685	326	9.738	25.880	327	9.811	26.074
328	9.883	26.266	329	9.955	26.455	330	10.026	26.643
331	10.097	26.830	332	10.168	27.014	333	10.238	27.196
334	10.307	27.376	335	10.376	27.555	336	10.445	27.731
337	10.513	27.906	338	10.980	28.540	339	11.440	29.164
340	11.893	29.777	341	12.337	30.379	342	12.775	30.971
343	13.204	31.551	344	13.626	32.122	345	14.041	32.681
346	14.448	33.230	347	9.290	15.316	348	9.367	16.029
349	9.428	16.740	350	9.468	17.450	351	9.342	18.400
352	9.462	18.870	353	9.407	19.583	354	9.309	20.301
355	9.164	21.024	356	8.965	21.753	357	9.034	21.998
358	9.101	22.241	359	9.169	22.482	360	9.236	22.721
361	7.288	11.235	362	8.056	12.214	363	8.633	13.225
364	9.039	14.261	365	9.303	22.957	366	9.369	23.191
367	9.435	23.423	368	9.501	23.653	369	9.567	23.880
370	9.631	24.106	371	9.696	24.329	372	9.760	24.549
373	9.824	24.768	374	9.888	24.984	375	9.951	25.199
376	10.014	25.411	377	10.076	25.620	378	10.138	25.828
379	10.200	26.033	380	10.257	26.267	381	10.322	26.437
382	10.383	26.636	383	10.443	26.833	384	10.503	27.027
385	10.562	27.219	386	10.622	27.409	387	10.680	27.596
388	10.739	27.782	389	11.197	28.429	390	11.649	29.066

391	12.092	29.692	392	12.528	30.308	393	12.957	30.914
394	13.378	31.508	395	13.792	32.093	396	14.198	32.667
397	14.597	33.230	398	9.774	14.900	399	9.752	15.802
400	9.902	16.308	401	9.941	17.007	402	9.956	17.705
403	9.943	18.402	404	9.896	19.101	405	9.809	19.802
406	9.678	20.506	407	9.497	21.217	408	9.553	21.481
409	9.609	21.742	410	9.664	22.001	411	9.719	22.258
412	9.774	22.512	413	7.663	10.908	414	8.469	11.860
415	9.078	12.847	416	9.507	13.863	417	9.828	22.763
418	9.883	23.012	419	9.937	23.259	420	9.991	23.503
421	10.044	23.744	422	10.098	23.983	423	10.151	24.219
424	10.204	24.453	425	10.256	24.684	426	10.309	24.913
427	10.361	25.139	428	10.412	25.363	429	10.464	25.584
430	10.515	25.803	431	10.566	26.019	432	10.617	26.233
433	10.668	26.444	434	10.718	26.652	435	10.768	26.858
436	10.818	27.062	437	10.867	27.263	438	10.917	27.461
439	10.966	27.657	440	11.415	28.318	441	11.858	28.968
442	12.293	29.608	443	12.720	30.237	444	13.141	30.857
445	13.553	31.465	446	13.959	32.064	447	14.357	32.652
448	14.747	33.230	449	10.262	14.482	450	10.324	15.182
451	10.377	15.876	452	10.414	16.565	453	10.431	17.252
454	10.422	17.936	455	10.381	18.621	456	10.305	19.307
457	10.187	19.995	458	10.022	20.686	459	10.065	20.969
460	10.109	21.249	461	10.153	21.526	462	10.196	21.801
463	10.239	22.072	464	10.282	22.341	465	8.034	10.583
466	8.881	11.506	467	9.522	12.468	468	9.977	13.462
469	10.325	22.606	470	10.368	22.869	471	10.411	23.129
472	10.453	23.387	473	10.495	23.641	474	10.538	23.893
475	10.580	24.141	476	10.622	24.387	477	10.663	24.630
478	10.705	24.870	479	10.747	25.108	480	10.788	25.342
481	10.829	25.574	482	10.870	25.803	483	10.911	26.029
484	10.952	26.252	485	10.993	26.473	486	11.033	26.690
487	11.073	26.905	488	11.114	27.117	489	11.154	27.326
490	11.194	27.532	491	11.634	28.206	492	12.068	28.869
493	12.494	29.523	494	12.913	30.166	495	13.325	30.799
496	13.729	31.422	497	14.126	32.035	498	14.516	32.638
499	14.898	33.230	500	10.753	14.062	501	10.807	14.755
502	10.853	15.442	503	10.887	16.123	504	10.904	16.800
505	10.898	17.473	506	10.864	18.145	507	10.796	18.816
508	10.689	19.488	509	10.539	20.163	510	10.571	20.464
511	10.603	20.762	512	10.635	21.057	513	10.667	21.348
514	10.699	21.637	515	10.731	21.923	516	10.762	22.205
517	8.402	10.261	518	9.291	11.154	519	9.968	12.089
520	10.449	13.061	521	10.794	22.484	522	10.826	22.760
523	10.857	23.033	524	10.889	23.303	525	10.921	23.569
526	10.952	23.833	527	10.984	24.093	528	11.097	24.200
529	11.047	24.604	530	11.078	24.855	531	11.110	25.103
532	11.141	25.347	533	11.173	25.589	534	11.204	25.827
535	11.235	26.062	536	11.267	26.294	537	11.298	26.523
538	11.329	26.749	539	11.360	26.971	540	11.391	27.190
541	11.423	27.407	542	11.855	28.094	543	12.279	28.771
544	12.697	29.438	545	13.107	30.095	546	13.510	30.742
547	13.906	31.379	548	14.295	32.006	549	14.676	32.623
550	15.050	33.230	551	11.248	13.638	552	11.291	14.327
553	11.450	15.273	554	11.361	15.681	555	11.376	16.349
556	11.372	17.012	557	11.342	17.672	558	11.282	18.329
559	11.186	18.987	560	11.049	19.645	561	10.938	20.150
562	11.090	20.280	563	11.111	20.593	564	11.132	20.902
565	11.153	21.207	566	11.173	21.509	567	11.194	21.808
568	11.215	22.103	569	8.767	9.941	570	10.038	11.083
571	10.413	11.710	572	10.923	12.658	573	11.237	22.395
574	11.258	22.683	575	11.279	22.968	576	11.300	23.250
577	11.322	23.527	578	11.343	23.802	579	11.365	24.073
580	11.387	24.340	581	11.408	24.604	582	11.430	24.865
583	11.452	25.122	584	11.474	25.376	585	11.496	25.626
586	11.518	25.873	587	11.540	26.116	588	11.563	26.356
589	11.585	26.593	590	11.607	26.826	591	11.630	27.055
592	11.653	27.281	593	12.076	27.981	594	12.492	28.672
595	12.900	29.353	596	13.302	30.023	597	13.697	30.684
598	14.108	31.388	599	14.464	31.977	600	14.837	32.608
601	15.203	33.230	602	11.746	13.211	603	11.778	13.897
604	11.809	14.573	605	11.834	15.240	606	11.847	15.899
607	11.843	16.553	608	11.817	17.202	609	11.764	17.847
610	11.677	18.491	611	11.553	19.134	612	11.562	19.471
613	11.571	19.805	614	11.581	20.134	615	11.591	20.460
616	11.601	20.783	617	11.611	21.101	618	11.621	21.416
619	11.632	21.727	620	11.643	22.034	621	9.129	9.623
622	10.108	10.452	623	10.858	11.331	624	11.399	12.253
625	11.654	22.338	626	11.665	22.637	627	11.676	22.933
628	11.688	23.225	629	11.700	23.514	630	11.712	23.798
631	11.724	24.079	632	11.736	24.356	633	11.748	24.629
634	11.761	24.899	635	11.774	25.165	636	11.787	25.427
637	11.800	25.685	638	11.814	25.939	639	11.827	26.190

640	11.841	26.437	641	11.855	26.680	642	11.869	26.919
643	11.884	27.155	644	12.298	27.869	645	12.705	28.573
646	13.105	29.267	647	13.498	29.952	648	13.884	30.627
649	14.263	31.292	650	14.635	31.948	651	14.999	32.594
652	15.357	33.230	653	12.249	12.782	654	12.268	13.465
655	12.290	14.137	656	12.308	14.798	657	12.317	15.451
658	12.312	16.096	659	12.289	16.735	660	12.240	17.369
661	12.225	18.215	662	12.049	18.629	663	12.047	18.984
664	12.046	19.335	665	12.045	19.682	666	12.044	20.024
667	12.043	20.363	668	12.043	20.698	669	12.043	21.029
670	12.044	21.355	671	12.045	21.677	672	12.046	21.996
673	9.488	9.308	674	10.514	10.103	675	11.304	10.952
676	11.876	11.847	677	12.047	22.310	678	12.049	22.620
679	12.051	22.926	680	12.053	23.228	681	12.055	23.526
682	12.058	23.820	683	12.061	24.110	684	12.065	24.396
685	12.069	24.678	686	12.073	24.955	687	12.077	25.229
688	12.082	25.498	689	12.087	25.763	690	12.092	26.025
691	12.097	26.282	692	12.103	26.535	693	12.109	26.784
694	12.116	27.029	695	12.521	27.756	696	12.919	28.473
697	13.311	29.181	698	13.695	29.880	699	14.072	30.569
700	14.443	31.248	701	14.806	31.918	702	15.162	32.579
703	15.512	33.230	704	12.754	12.350	705	12.760	13.031
706	12.771	13.700	707	12.781	14.357	708	12.786	15.004
709	12.779	15.642	710	12.757	16.272	711	12.712	16.896
712	12.641	17.515	713	12.538	18.130	714	12.525	18.503
715	12.514	18.871	716	12.413	19.450	717	12.491	19.594
718	12.480	19.949	719	12.470	20.299	720	12.460	20.646
721	12.451	20.988	722	12.442	21.325	723	12.433	21.658
724	12.425	21.987	725	9.843	8.995	726	10.918	9.755
727	11.750	10.572	728	12.356	11.439	729	12.417	22.311
730	12.410	22.631	731	12.403	22.946	732	12.397	23.257
733	12.390	23.564	734	12.385	23.866	735	12.379	24.164
736	12.374	24.458	737	12.370	24.747	738	12.366	25.032
739	12.362	25.312	740	12.359	25.588	741	12.356	25.860
742	12.354	26.127	743	12.352	26.390	744	12.350	26.648
745	12.349	26.902	746	12.745	27.643	747	13.135	28.374
748	13.517	29.095	749	13.893	29.808	750	14.261	30.511
751	14.623	31.205	752	14.978	31.889	753	15.326	32.564
754	15.668	33.230	755	13.264	11.915	756	13.255	12.596
757	13.254	13.263	758	13.255	13.916	759	13.140	14.600
760	13.244	15.189	761	13.221	15.812	762	13.180	16.426
763	13.114	17.035	764	13.020	17.638	765	12.997	18.027
766	12.975	18.413	767	12.953	18.793	768	12.932	19.169
769	12.912	19.540	770	12.892	19.906	771	12.872	20.267
772	12.853	20.624	773	12.835	20.977	774	12.817	21.324
775	12.799	21.667	776	12.782	22.005	777	10.195	8.685
778	11.321	9.408	779	12.196	10.192	780	12.838	11.030
781	12.766	22.338	782	12.750	22.667	783	12.735	22.991
784	12.720	23.310	785	12.706	23.625	786	12.692	23.935
787	12.679	24.240	788	12.666	24.541	789	12.654	24.836
790	12.642	25.127	791	12.631	25.414	792	12.620	25.695
793	12.610	25.972	794	12.601	26.245	795	12.592	26.512
796	12.583	26.775	797	12.970	27.529	798	13.351	28.274
799	13.725	29.009	800	14.092	29.736	801	14.452	30.453
802	14.805	31.161	803	15.152	31.860	804	15.491	32.549
805	15.824	33.230	806	13.777	11.477	807	13.835	12.220
808	13.738	12.824	809	13.729	13.475	810	13.720	14.113
811	13.706	14.739	812	13.682	15.355	813	13.642	15.961
814	13.581	16.560	815	13.494	17.152	816	13.462	17.558
817	13.430	17.960	818	13.398	18.357	819	13.367	18.749
820	13.337	19.135	821	13.308	19.517	822	13.279	19.894
823	13.251	20.266	824	13.223	20.632	825	13.196	20.994
826	13.170	21.351	827	13.144	21.702	828	13.119	22.049
829	10.544	8.377	830	11.723	9.063	831	12.643	9.812
832	13.322	10.619	833	13.094	22.391	834	13.071	22.727
835	12.972	23.157	836	13.025	23.386	837	13.003	23.707
838	12.982	24.024	839	12.961	24.336	840	12.941	24.642
841	12.922	24.944	842	12.903	25.240	843	12.885	25.532
844	12.867	25.818	845	12.850	26.100	846	12.834	26.376
847	12.818	26.648	848	13.197	27.415	849	13.568	28.174
850	13.933	28.923	851	14.291	29.663	852	14.643	30.395
853	14.988	31.117	854	15.326	31.830	855	15.657	32.535
856	15.982	33.230	857	14.294	11.036	858	14.251	11.719
859	14.223	12.385	860	14.202	13.035	861	14.185	13.670
862	14.166	14.292	863	14.139	14.901	864	14.100	15.500
865	14.043	16.090	866	13.962	16.672	867	13.920	17.095
868	13.878	17.514	869	13.837	17.927	870	13.797	18.334
871	13.757	18.736	872	13.719	19.133	873	13.681	19.525
874	13.643	19.911	875	13.480	20.202	876	13.571	20.668
877	13.536	21.038	878	13.502	21.403	879	13.468	21.763
880	13.436	22.118	881	10.890	8.071	882	12.123	8.718
883	13.495	9.875	884	13.807	10.207	885	13.403	22.467
886	13.372	22.810	887	13.342	23.149	888	13.312	23.482

889	13.283	23.810	890	13.254	24.132	891	13.227	24.449
892	13.200	24.761	893	13.174	25.068	894	13.149	25.369
895	13.124	25.665	896	13.100	25.955	897	13.077	26.241
898	13.055	26.520	899	13.424	27.301	900	13.787	28.073
901	14.143	28.836	902	14.492	29.591	903	14.835	30.336
904	15.171	31.073	905	15.501	31.801	906	15.824	32.520
907	16.140	33.230	908	14.814	10.592	909	14.753	11.278
910	14.709	11.945	911	14.676	12.595	912	14.650	13.228
913	14.624	13.846	914	14.593	14.451	915	14.553	15.044
916	14.795	15.505	917	14.423	16.198	918	14.371	16.638
919	14.320	17.073	920	14.269	17.502	921	14.220	17.925
922	14.172	18.343	923	14.124	18.754	924	14.077	19.161
925	14.031	19.561	926	13.986	19.957	927	13.942	20.346
928	13.899	20.730	929	13.856	21.108	930	13.814	21.480
931	13.774	21.847	932	13.734	22.209	933	11.232	7.768
934	12.522	8.374	935	13.565	8.938	936	14.295	9.793
937	13.695	22.564	938	13.656	22.914	939	13.619	23.259
940	13.582	23.597	941	13.547	23.930	942	13.512	24.258
943	13.478	24.580	944	13.445	24.896	945	13.413	25.206
946	13.381	25.511	947	13.351	25.811	948	13.321	26.104
949	13.292	26.392	950	13.652	27.187	951	14.006	27.972
952	14.353	28.750	953	14.694	29.518	954	15.028	30.278
955	15.356	31.029	956	15.677	31.771	957	15.991	32.505
958	16.299	33.230	959	11.571	7.467	960	15.338	10.146
961	15.258	10.835	962	15.197	11.504	963	15.150	12.154
964	15.113	12.787	965	15.079	13.403	966	15.044	14.004
967	15.002	14.592	968	14.947	15.167	969	14.876	15.731
970	14.815	16.188	971	14.755	16.638	972	14.696	17.083
973	14.637	17.521	974	14.580	17.954	975	14.524	18.380
976	14.523	18.750	977	14.414	19.216	978	14.361	19.625
979	14.309	20.028	980	14.257	20.425	981	14.207	20.816
982	14.157	21.201	983	14.109	21.580	984	14.061	21.953
985	14.014	22.320	986	12.919	8.032	987	13.984	8.671
988	14.784	9.378	989	13.969	22.682	990	13.924	23.037
991	13.880	23.387	992	13.838	23.730	993	13.796	24.068
994	13.755	24.399	995	13.715	24.725	996	13.676	25.045
997	13.638	25.359	998	13.601	25.666	999	13.565	25.968
1000	13.530	26.264	1001	13.882	27.072	1002	14.227	27.872
1003	14.565	28.662	1004	14.897	29.445	1005	15.222	30.219
1006	15.541	30.984	1007	15.854	31.741	1008	16.160	32.490
1009	16.460	33.230	1010	11.908	7.169	1011	13.314	7.690
1012	15.866	9.697	1013	15.765	10.391	1014	15.686	11.063
1015	15.624	11.715	1016	15.575	12.347	1017	15.532	12.962
1018	15.490	13.560	1019	15.445	14.144	1020	15.391	14.713
1021	15.322	15.270	1022	15.252	15.743	1023	15.183	16.209
1024	15.183	16.955	1025	15.049	17.123	1026	14.983	17.570
1027	14.919	18.011	1028	14.855	18.446	1029	14.793	18.875
1030	14.731	19.297	1031	14.671	19.714	1032	14.612	20.123
1033	14.554	20.527	1034	14.497	20.925	1035	14.441	21.316
1036	14.386	21.701	1037	14.332	22.079	1038	14.279	22.452
1039	14.431	8.290	1040	15.276	8.961	1041	14.227	22.818
1042	14.220	23.155	1043	14.127	23.531	1044	14.079	23.879
1045	14.032	24.220	1046	13.985	24.555	1047	13.940	24.884
1048	13.896	25.206	1049	13.853	25.522	1050	13.811	25.832
1051	13.932	26.433	1052	14.112	26.957	1053	14.448	27.770
1054	14.778	28.575	1055	15.101	29.372	1056	15.417	30.160
1057	15.728	30.940	1058	16.032	31.712	1059	16.329	32.475
1060	16.621	33.230	1061	12.240	6.873	1062	13.708	7.350
1063	14.879	7.909	1064	16.398	9.244	1065	16.274	9.944
1066	16.176	10.620	1067	16.098	11.275	1068	16.035	11.909
1069	15.982	12.523	1070	15.934	13.120	1071	15.884	13.700
1072	15.829	14.265	1073	15.761	14.816	1074	15.683	15.304
1075	15.605	15.786	1076	15.529	16.261	1077	15.454	16.730
1078	15.380	17.192	1079	15.308	17.647	1080	15.236	18.096
1081	15.166	18.538	1082	15.097	18.974	1083	15.029	19.403
1084	14.963	19.826	1085	14.897	20.242	1086	14.833	20.651
1087	14.770	21.054	1088	14.708	21.451	1089	14.647	21.841
1090	14.587	22.224	1091	14.529	22.601	1092	15.769	8.542
1093	14.472	22.971	1094	14.416	23.334	1095	14.361	23.691
1096	14.307	24.042	1097	14.255	24.386	1098	14.204	24.723
1099	14.153	25.054	1100	14.105	25.378	1101	14.057	25.696
1102	14.010	26.007	1103	14.344	26.842	1104	14.670	27.669
1105	14.991	28.488	1106	15.305	29.299	1107	15.613	30.101
1108	15.915	30.896	1109	16.211	31.682	1110	16.500	32.460
1111	16.783	33.230	1112	12.570	6.580	1113	14.101	7.011
1114	15.326	7.527	1115	16.264	8.123	1116	12.897	6.289
1117	13.220	6.000	1118	16.933	8.789	1119	16.786	9.496
1120	16.667	10.177	1121	16.572	10.835	1122	16.495	11.471
1123	16.431	12.087	1124	16.373	12.682	1125	16.318	13.260
1126	16.260	13.822	1127	16.193	14.368	1128	16.107	14.871
1129	16.021	15.368	1130	15.937	15.859	1131	15.854	16.342
1132	15.772	16.818	1133	15.692	17.288	1134	15.613	17.750
1135	15.535	18.206	1136	15.458	18.655	1137	15.383	19.097

1138	15.309	19.532	1139	15.237	19.960	1140	15.166	20.382
1141	15.096	20.796	1142	15.027	21.204	1143	14.959	21.605
1144	14.893	21.998	1145	14.829	22.385	1146	14.765	22.766
1147	14.703	23.139	1148	14.642	23.505	1149	14.582	23.865
1150	14.524	24.217	1151	14.467	24.563	1152	14.411	24.902
1153	14.357	25.234	1154	14.304	25.559	1155	14.252	25.878
1156	14.576	26.726	1157	14.894	27.567	1158	15.206	28.400
1159	15.511	29.225	1160	15.811	30.042	1161	16.104	30.851
1162	16.391	31.652	1163	16.671	32.445	1164	16.946	33.230
1165	14.492	6.673	1166	15.774	7.146	1167	16.762	7.701
1168	17.471	8.332	1169	14.882	6.336	1170	15.270	6.000
1171	17.300	9.046	1172	17.160	9.733	1173	17.046	10.396
1174	16.954	11.035	1175	16.820	11.773	1176	16.810	12.248
1177	16.748	12.825	1178	16.686	13.384	1179	16.618	13.926
1180	16.670	14.417	1181	16.430	14.957	1182	16.338	15.462
1183	16.247	15.959	1184	16.158	16.450	1185	16.070	16.933
1186	15.984	17.409	1187	15.899	17.878	1188	15.815	18.340
1189	15.733	18.794	1190	15.652	19.242	1191	15.573	19.682
1192	15.495	20.115	1193	15.418	20.541	1194	15.343	20.959
1195	15.270	21.371	1196	15.197	21.775	1197	15.126	22.172
1198	15.057	22.562	1199	14.989	22.945	1200	14.922	23.320
1201	14.857	23.689	1202	14.793	24.050	1203	14.730	24.404
1204	14.669	24.751	1205	14.610	25.090	1206	14.551	25.423
1207	14.494	25.748	1208	14.809	26.611	1209	15.118	27.465
1210	15.421	28.312	1211	15.718	29.151	1212	16.009	29.983
1213	16.293	30.806	1214	16.571	31.622	1215	16.844	32.430
1216	17.110	33.230	1217	16.223	6.764	1218	17.261	7.278
1219	18.014	7.871	1220	17.817	8.594	1221	16.671	6.382
1222	17.120	6.000	1223	17.654	9.288	1224	17.521	9.957
1225	17.411	10.600	1226	17.320	11.220	1227	17.242	11.818
1228	17.173	12.394	1229	17.106	12.951	1230	17.036	13.490
1231	16.934	14.024	1232	16.833	14.551	1233	16.733	15.070
1234	16.635	15.582	1235	16.538	16.087	1236	16.443	16.583
1237	16.350	17.073	1238	16.258	17.555	1239	16.168	18.029
1240	16.079	18.496	1241	15.991	18.955	1242	15.757	19.500
1243	15.821	19.852	1244	15.738	20.288	1245	15.657	20.718
1246	15.577	21.140	1247	15.499	21.554	1248	15.422	21.961
1249	15.347	22.361	1250	15.273	22.752	1251	15.201	23.137
1252	15.130	23.514	1253	15.061	23.883	1254	14.993	24.245
1255	14.927	24.600	1256	14.863	24.947	1257	14.800	25.286
1258	14.738	25.618	1259	15.044	26.494	1260	15.344	27.363
1261	15.638	28.224	1262	15.926	29.078	1263	16.208	29.923
1264	16.483	30.761	1265	16.753	31.592	1266	17.017	32.415
1267	17.274	33.230	1268	17.762	6.854	1269	18.560	7.408
1270	18.336	8.140	1271	18.149	8.843	1272	18.265	6.428
1273	18.770	6.000	1274	17.995	9.518	1275	17.867	10.167
1276	17.761	10.790	1277	17.672	11.390	1278	17.593	11.968
1279	17.520	12.524	1280	17.447	13.061	1281	17.337	13.610
1282	17.229	14.151	1283	17.122	14.685	1284	17.017	15.211
1285	16.913	15.729	1286	16.811	16.239	1287	16.711	16.741
1288	16.612	17.236	1289	16.515	17.722	1290	16.420	18.201
1291	16.326	18.672	1292	16.234	19.136	1293	16.144	19.591
1294	16.055	20.039	1295	15.968	20.479	1296	15.882	20.911
1297	15.798	21.335	1298	15.716	21.752	1299	15.635	22.161
1300	15.556	22.562	1301	15.479	22.955	1302	15.403	23.340
1303	15.329	23.718	1304	15.256	24.087	1305	15.186	24.449
1306	15.116	24.803	1307	15.049	25.149	1308	14.983	25.488
1309	15.280	26.378	1310	15.570	27.261	1311	15.855	28.136
1312	16.134	29.003	1313	16.407	29.864	1314	16.675	30.716
1315	16.936	31.562	1316	17.191	32.400	1317	17.440	33.230
1318	19.080	6.648	1319	18.858	7.684	1320	18.646	8.396
1321	18.469	9.079	1322	19.663	6.472	1323	20.220	6.000
1324	18.323	9.734	1325	18.200	10.363	1326	18.097	10.966
1327	18.008	11.545	1328	17.928	12.102	1329	17.850	12.638
1330	17.733	13.201	1331	17.618	13.757	1332	17.504	14.305
1333	17.392	14.844	1334	17.282	15.376	1335	17.174	15.899
1336	17.067	16.414	1337	16.962	16.921	1338	16.859	17.420
1339	16.757	17.911	1340	16.692	18.190	1341	16.560	18.868
1342	16.463	19.334	1343	16.369	19.793	1344	16.276	20.243
1345	16.185	20.685	1346	16.096	21.119	1347	16.008	21.545
1348	15.922	21.963	1349	15.838	22.372	1350	15.756	22.774
1351	15.675	23.167	1352	15.597	23.553	1353	15.519	23.930
1354	15.444	24.299	1355	15.370	24.660	1356	15.299	25.013
1357	15.228	25.357	1358	15.516	26.261	1359	15.798	27.158
1360	16.074	28.047	1361	16.344	28.929	1362	16.608	29.804
1363	16.867	30.671	1364	17.119	31.532	1365	17.366	32.384
1366	17.607	33.230	1367	19.382	7.227	1368	19.144	7.949
1369	18.944	8.641	1370	18.778	9.307	1371	19.908	6.767
1372	20.437	6.306	1373	20.782	6.000	1374	18.637	9.937
1375	18.519	10.545	1376	18.419	11.127	1377	18.330	11.685
1378	18.247	12.221	1379	18.123	12.799	1380	18.001	13.369
1381	17.881	13.930	1382	17.762	14.483	1383	17.646	15.028
1384	17.531	15.564	1385	17.418	16.092	1386	17.307	16.611

1387	17.198	17.122	1388	17.090	17.624	1389	16.985	18.118
1390	16.881	18.604	1391	16.780	19.081	1392	16.680	19.549
1393	16.582	20.010	1394	16.485	20.462	1395	16.391	20.905
1396	16.255	21.220	1397	16.208	21.767	1398	16.119	22.185
1399	16.032	22.594	1400	15.947	22.996	1401	15.864	23.389
1402	15.782	23.773	1403	15.703	24.149	1404	15.625	24.517
1405	15.549	24.876	1406	15.475	25.227	1407	15.754	26.144
1408	16.027	27.055	1409	16.294	27.958	1410	16.555	28.855
1411	16.810	29.744	1412	17.060	30.626	1413	17.304	31.501
1414	17.542	32.369	1415	17.774	33.230	1416	19.643	7.501
1417	19.418	8.202	1418	19.230	8.873	1419	19.071	9.514
1420	20.143	7.052	1421	20.645	6.602	1422	20.989	6.309
1423	21.353	6.000	1424	18.938	10.127	1425	18.825	10.713
1426	18.726	11.274	1427	18.636	11.810	1428	18.506	12.403
1429	18.513	13.180	1430	18.251	13.561	1431	18.126	14.128
1432	18.003	14.685	1433	17.882	15.234	1434	17.764	15.774
1435	17.647	16.305	1436	17.532	16.827	1437	17.419	17.341
1438	17.308	17.846	1439	17.199	18.343	1440	17.092	18.830
1441	16.987	19.309	1442	16.884	19.779	1443	16.783	20.240
1444	16.684	20.693	1445	16.587	21.137	1446	16.492	21.572
1447	16.398	21.999	1448	16.307	22.416	1449	16.218	22.825
1450	16.130	23.225	1451	16.045	23.617	1452	15.961	24.000
1453	15.880	24.374	1454	15.800	24.739	1455	15.723	25.095
1456	15.992	26.027	1457	16.256	26.952	1458	16.514	27.869
1459	16.766	28.780	1460	17.013	29.684	1461	17.254	30.581
1462	17.489	31.471	1463	17.719	32.354	1464	17.943	33.230
1465	19.893	7.764	1466	20.368	7.327	1467	19.681	8.444
1468	19.503	9.093	1469	19.353	9.713	1470	20.842	6.889
1471	21.187	6.608	1472	21.549	6.312	1473	21.934	6.000
1474	19.226	10.304	1475	19.116	10.868	1476	19.018	11.406
1477	18.882	12.013	1478	18.747	12.610	1479	18.614	13.198
1480	18.484	13.777	1481	18.355	14.347	1482	18.229	14.909
1483	18.104	15.461	1484	17.982	16.004	1485	17.862	16.538
1486	17.744	17.062	1487	17.628	17.578	1488	17.514	18.085
1489	17.402	18.583	1490	17.292	19.072	1491	17.184	19.551
1492	17.078	20.022	1493	16.975	20.483	1494	16.873	20.936
1495	16.774	21.380	1496	16.676	21.814	1497	16.581	22.239
1498	16.488	22.656	1499	16.397	23.063	1500	16.307	23.461
1501	16.220	23.850	1502	16.135	24.231	1503	16.053	24.602
1504	15.972	24.964	1505	16.232	25.909	1506	16.487	26.848
1507	16.736	27.780	1508	16.979	28.706	1509	17.217	29.624
1510	17.449	30.536	1511	17.676	31.441	1512	17.897	32.339
1513	18.112	33.230	1514	20.132	8.017	1515	20.581	7.591
1516	21.030	7.165	1517	19.933	8.675	1518	19.765	9.301
1519	19.622	9.898	1520	21.376	6.896	1521	21.737	6.614
1522	22.119	6.316	1523	22.525	6.000	1524	19.500	10.467
1525	19.394	11.008	1526	19.251	11.628	1527	19.110	12.239
1528	18.972	12.840	1529	18.836	13.432	1530	18.702	14.015
1531	18.570	14.588	1532	18.440	15.152	1533	18.313	15.707
1534	18.187	16.252	1535	18.064	16.788	1536	17.943	17.314
1537	17.825	17.831	1538	17.708	18.339	1539	17.594	18.837
1540	17.481	19.326	1541	17.371	19.806	1542	17.264	20.276
1543	17.158	20.737	1544	17.054	21.189	1545	16.953	21.631
1546	16.854	22.064	1547	16.757	22.487	1548	16.662	22.902
1549	16.570	23.306	1550	16.480	23.702	1551	16.391	24.088
1552	16.305	24.465	1553	16.222	24.832	1554	16.473	25.792
1555	16.718	26.745	1556	16.958	27.691	1557	17.193	28.631
1558	17.422	29.564	1559	17.645	30.490	1560	17.863	31.410
1561	18.076	32.323	1562	18.282	33.230	1563	20.360	8.258
1564	20.785	7.844	1565	21.208	7.432	1566	21.555	7.173
1567	20.173	8.893	1568	20.014	9.497	1569	19.879	10.071
1570	21.917	6.903	1571	22.297	6.619	1572	22.698	6.319
1573	23.126	6.000	1574	20.251	9.681	1575	19.762	10.617
1576	19.613	11.250	1577	19.467	11.874	1578	19.323	12.488
1579	19.182	13.093	1580	19.042	13.688	1581	18.905	14.273
1582	18.771	14.848	1583	18.638	15.414	1584	18.508	15.970
1585	18.380	16.517	1586	18.255	17.053	1587	18.132	17.581
1588	18.011	18.098	1589	17.892	18.606	1590	17.776	19.104
1591	17.662	19.592	1592	17.550	20.071	1593	17.441	20.540
1594	17.334	21.000	1595	17.229	21.450	1596	17.126	21.890
1597	17.026	22.320	1598	16.928	22.741	1599	16.832	23.152
1600	16.739	23.553	1601	16.648	23.945	1602	16.559	24.327
1603	16.473	24.700	1604	16.714	25.673	1605	16.951	26.641
1606	17.182	27.601	1607	17.407	28.556	1608	17.628	29.503
1609	17.842	30.445	1610	18.051	31.380	1611	18.255	32.308
1612	18.454	33.230	1613	20.577	8.489	1614	20.978	8.087
1615	21.376	7.689	1616	21.725	7.440	1617	22.088	7.181
1618	20.401	9.100	1619	20.122	10.232	1620	22.466	6.910
1621	22.864	6.625	1622	23.286	6.322	1623	23.736	6.000
1624	20.618	9.296	1625	20.476	9.853	1626	20.823	9.480
1627	19.969	10.878	1628	19.817	11.515	1629	19.668	12.142
1630	19.522	12.759	1631	19.377	13.365	1632	19.236	13.962
1633	19.096	14.549	1634	18.959	15.126	1635	18.825	15.693

1636	18.692	16.250	1637	18.563	16.796	1638	18.435	17.333
1639	18.310	17.860	1640	18.188	18.377	1641	18.068	18.884
1642	18.080	19.295	1643	17.835	19.868	1644	17.722	20.345
1645	17.611	20.813	1646	17.503	21.270	1647	17.397	21.717
1648	17.294	22.154	1649	17.193	22.581	1650	17.094	22.998
1651	16.998	23.406	1652	16.905	23.803	1653	16.813	24.190
1654	16.724	24.567	1655	16.957	25.555	1656	17.185	26.536
1657	17.406	27.511	1658	17.623	28.480	1659	17.834	29.443
1660	18.040	30.399	1661	18.241	31.349	1662	18.436	32.293
1663	18.626	33.230	1664	20.783	8.708	1665	21.161	8.320
1666	21.534	7.936	1667	21.887	7.696	1668	22.250	7.448
1669	22.627	7.189	1670	20.978	8.916	1671	20.317	10.512
1672	23.023	6.917	1673	23.440	6.630	1674	23.883	6.325
1675	24.356	6.000	1676	21.162	9.114	1677	20.659	10.152
1678	20.994	9.799	1679	21.322	9.451	1680	20.161	11.162
1681	20.007	11.801	1682	19.856	12.430	1683	19.707	13.048
1684	19.560	13.656	1685	19.417	14.254	1686	19.275	14.842
1687	19.136	15.419	1688	19.000	15.986	1689	18.866	16.543
1690	18.735	17.090	1691	18.606	17.626	1692	18.480	18.152
1693	18.357	18.668	1694	18.235	19.173	1695	18.117	19.668
1696	18.001	20.153	1697	17.887	20.627	1698	17.776	21.091
1699	17.667	21.545	1700	17.561	21.989	1701	17.458	22.422
1702	17.357	22.845	1703	17.258	23.258	1704	17.162	23.660
1705	17.068	24.053	1706	16.978	24.435	1707	17.201	25.436
1708	17.419	26.432	1709	17.632	27.421	1710	17.840	28.405
1711	18.042	29.382	1712	18.239	30.353	1713	18.431	31.318
1714	18.617	32.277	1715	18.799	33.230	1716	21.333	8.542
1717	21.682	8.173	1718	22.039	7.941	1719	22.404	7.703
1720	22.781	7.456	1721	23.174	7.197	1722	21.495	8.754
1723	20.498	10.814	1724	23.588	6.924	1725	24.025	6.636
1726	24.490	6.328	1727	24.986	6.000	1728	20.829	10.473
1729	21.153	10.137	1730	21.644	9.109	1731	21.470	9.807
1732	21.890	8.526	1733	21.725	9.218	1734	21.958	8.648
1735	20.340	11.466	1736	20.184	12.106	1737	20.030	12.736
1738	19.880	13.356	1739	19.732	13.964	1740	19.587	14.563
1741	19.444	15.150	1742	19.304	15.727	1743	19.188	16.142
1744	19.032	16.850	1745	18.899	17.395	1746	18.770	17.929
1747	18.643	18.453	1748	18.518	18.967	1749	18.397	19.470
1750	18.278	19.962	1751	18.161	20.444	1752	18.047	20.915
1753	17.936	21.375	1754	17.828	21.825	1755	17.722	22.264
1756	17.619	22.693	1757	17.518	23.111	1758	17.420	23.518
1759	17.324	23.915	1760	17.232	24.301	1761	17.327	25.140
1762	17.655	26.327	1763	17.859	27.331	1764	18.057	28.329
1765	18.251	29.321	1766	18.439	30.307	1767	18.622	31.287
1768	18.800	32.262	1769	18.973	33.230	1770	21.820	8.400
1771	22.181	8.176	1772	22.549	7.947	1773	22.927	7.710
1774	23.319	7.464	1775	23.729	7.205	1776	20.666	11.136
1777	24.161	6.932	1778	24.618	6.641	1779	25.105	6.331
1780	25.626	6.000	1781	20.986	10.812	1782	21.300	10.493
1783	21.563	9.899	1784	21.805	9.322	1785	22.026	8.767
1786	26.276	6.000	1787	26.935	6.000	1788	27.604	6.000
1789	28.283	6.000	1790	28.972	6.000	1791	29.670	6.000
1792	21.820	8.400	1793	20.506	11.788	1794	20.349	12.429
1795	20.194	13.060	1796	20.042	13.679	1797	19.893	14.288
1798	19.747	14.885	1799	19.603	15.472	1800	19.462	16.048
1801	19.324	16.613	1802	19.189	17.167	1803	19.056	17.710
1804	18.926	18.242	1805	18.799	18.763	1806	18.675	19.274
1807	18.553	19.773	1808	18.434	20.262	1809	18.318	20.739
1810	18.204	21.206	1811	18.063	21.675	1812	17.986	22.107
1813	17.880	22.541	1814	17.778	22.964	1815	17.678	23.376
1816	17.581	23.778	1817	17.487	24.168	1818	17.692	25.198
1819	17.891	26.222	1820	18.086	27.241	1821	18.276	28.253
1822	18.460	29.260	1823	18.640	30.261	1824	18.814	31.257
1825	18.983	32.246	1826	19.148	33.230	1827	22.315	8.400
1828	22.685	8.179	1829	23.065	7.952	1830	23.456	7.717
1831	23.863	7.472	1832	24.290	7.213	1833	20.822	11.475
1834	24.741	6.939	1835	25.220	6.647	1836	25.730	6.335
1837	21.132	11.168	1838	21.404	10.569	1839	21.655	9.987
1840	21.920	9.232	1841	22.091	8.882	1842	26.364	6.338
1843	27.007	6.341	1844	27.659	6.344	1845	28.320	6.347
1846	28.990	6.350	1847	29.670	6.354	1848	22.037	8.787
1849	20.661	12.128	1850	20.503	12.769	1851	20.347	13.399
1852	20.195	14.017	1853	20.045	14.625	1854	19.898	15.221
1855	19.754	15.806	1856	19.613	16.380	1857	19.475	16.942
1858	19.340	17.493	1859	19.167	18.202	1860	19.077	18.563
1861	18.950	19.080	1862	18.826	19.587	1863	18.705	20.082
1864	18.587	20.566	1865	18.471	21.039	1866	18.359	21.500
1867	18.249	21.951	1868	18.142	22.390	1869	18.038	22.818
1870	17.937	23.234	1871	17.838	23.640	1872	17.743	24.034
1873	17.939	25.078	1874	18.129	26.117	1875	18.315	27.150
1876	18.495	28.177	1877	18.671	29.199	1878	18.842	30.215
1879	19.007	31.226	1880	19.168	32.231	1881	19.323	33.230
1882	22.568	9.070	1883	22.814	8.400	1884	23.194	8.182

1885	23.586	7.958	1886	23.991	7.724	1887	24.414	7.480
1888	24.859	7.221	1889	20.968	11.831	1890	25.330	6.946
1891	25.830	6.652	1892	21.248	11.229	1893	21.507	10.642
1894	21.746	10.072	1895	21.992	9.345	1896	22.156	8.994
1897	26.449	6.658	1898	27.076	6.663	1899	27.712	6.669
1900	28.356	6.674	1901	29.009	6.680	1902	29.670	6.685
1903	22.240	9.137	1904	20.806	12.482	1905	20.647	13.123
1906	20.492	13.751	1907	20.339	14.368	1908	20.189	14.973
1909	20.043	15.567	1910	19.899	16.150	1911	19.758	16.721
1912	19.620	17.280	1913	19.485	17.828	1914	19.353	18.364
1915	19.224	18.889	1916	19.098	19.402	1917	18.975	19.904
1918	18.855	20.394	1919	18.737	20.873	1920	18.623	21.340
1921	18.512	21.795	1922	18.404	22.239	1923	18.298	22.672
1924	18.196	23.093	1925	18.096	23.502	1926	18.000	23.900
1927	18.186	24.958	1928	18.368	26.011	1929	18.544	27.059
1930	18.716	28.101	1931	18.883	29.138	1932	19.198	30.540
1933	19.201	31.195	1934	19.353	32.215	1935	19.500	33.230
1936	22.713	9.305	1937	23.020	8.787	1938	23.316	8.400
1939	23.708	8.185	1940	24.112	7.963	1941	24.532	7.732
1942	24.971	7.487	1943	25.435	7.229	1944	21.095	11.878
1945	25.926	6.953	1946	21.363	11.287	1947	21.609	10.711
1948	21.835	10.153	1949	22.064	9.459	1950	22.219	9.102
1951	26.530	6.960	1952	27.143	6.967	1953	27.763	6.974
1954	28.391	6.981	1955	29.026	6.988	1956	29.670	6.996
1957	22.430	9.450	1958	19.680	33.300	1959	19.860	33.371
1960	20.944	12.517	1961	20.797	13.145	1962	20.652	13.763
1963	20.510	14.370	1964	20.371	14.966	1965	20.235	15.552
1966	20.102	16.127	1967	19.971	16.692	1968	19.844	17.247
1969	19.719	17.790	1970	19.597	18.323	1971	19.479	18.846
1972	19.362	19.358	1973	19.249	19.859	1974	19.139	20.350
1975	19.032	20.830	1976	18.927	21.300	1977	18.825	21.759
1978	18.726	22.208	1979	18.853	22.728	1980	18.537	23.074
1981	18.447	23.491	1982	18.360	23.897	1983	18.526	24.959
1984	18.687	26.016	1985	18.843	27.070	1986	18.995	28.119
1987	19.141	29.163	1988	19.283	30.204	1989	19.421	31.240
1990	19.553	32.273	1991	22.858	9.538	1992	23.214	9.137
1993	23.635	8.910	1994	23.823	8.400	1995	24.226	8.189
1996	24.644	7.969	1997	25.079	7.739	1998	25.536	7.495
1999	26.018	7.237	2000	21.221	11.922	2001	21.476	11.342
2002	21.710	10.777	2003	21.923	10.231	2004	22.137	9.573
2005	22.281	9.206	2006	26.609	7.244	2007	27.206	7.252
2008	27.811	7.260	2009	28.424	7.268	2010	29.043	7.276
2011	29.670	7.284	2012	22.607	9.727	2013	19.752	32.330
2014	20.038	33.441	2015	19.952	32.958	2016	20.215	33.510
2017	21.081	12.548	2018	20.945	13.165	2019	20.811	13.772
2020	20.680	14.369	2021	20.552	14.957	2022	20.427	15.535
2023	20.304	16.103	2024	20.184	16.662	2025	20.067	17.211
2026	19.953	17.751	2027	19.841	18.281	2028	19.733	18.802
2029	19.627	19.313	2030	19.523	19.814	2031	19.423	20.306
2032	19.325	20.788	2033	19.230	21.260	2034	19.138	21.723
2035	19.049	22.177	2036	18.962	22.620	2037	18.878	23.055
2038	18.797	23.479	2039	18.719	23.894	2040	18.865	24.959
2041	19.005	26.021	2042	19.142	27.080	2043	19.273	28.136
2044	19.400	29.189	2045	19.522	30.239	2046	19.639	31.286
2047	23.089	9.727	2048	23.398	9.450	2049	23.704	9.137
2050	24.014	8.787	2051	24.334	8.400	2052	24.750	8.192
2053	25.181	7.975	2054	25.632	7.746	2055	26.106	7.503
2056	21.345	11.964	2057	21.589	11.394	2058	21.810	10.840
2059	22.010	10.306	2060	22.197	9.671	2061	22.342	9.306
2062	26.684	7.511	2063	27.268	7.519	2064	27.858	7.527
2065	28.456	7.535	2066	29.060	7.543	2067	29.670	7.551
2068	22.770	9.967	2069	19.857	31.331	2070	20.147	32.444
2071	20.074	31.377	2072	20.391	33.580	2073	20.330	33.123
2074	20.566	33.649	2075	21.217	12.577	2076	21.092	13.182
2077	20.970	13.778	2078	20.850	14.366	2079	20.732	14.945
2080	20.618	15.515	2081	20.506	16.077	2082	20.396	16.630
2083	20.290	17.174	2084	20.186	17.710	2085	20.085	18.237
2086	19.986	18.756	2087	19.890	19.266	2088	19.797	19.767
2089	19.707	20.260	2090	19.619	20.744	2091	19.585	21.310
2092	19.451	21.687	2093	19.371	22.145	2094	19.294	22.594
2095	19.220	23.035	2096	19.148	23.468	2097	19.079	23.892
2098	19.204	24.960	2099	19.324	26.026	2100	19.440	27.091
2101	19.551	28.154	2102	19.657	29.215	2103	19.759	30.274
2104	23.251	9.967	2105	23.569	9.727	2106	23.881	9.450
2107	24.194	9.137	2108	24.514	8.787	2109	24.850	8.400
2110	25.277	8.195	2111	25.723	7.980	2112	26.191	7.753
2113	21.469	12.002	2114	21.700	11.442	2115	21.909	10.900
2116	22.095	10.377	2117	22.258	9.770	2118	22.401	9.403
2119	26.756	7.760	2120	27.326	7.767	2121	27.903	7.774
2122	28.486	7.781	2123	29.075	7.788	2124	29.670	7.796
2125	22.920	10.170	2126	19.996	30.309	2127	20.290	31.422
2128	20.232	30.344	2129	20.538	32.557	2130	20.505	31.467
2131	20.740	33.718	2132	20.732	32.614	2133	22.459	9.496

2134	22.874	10.110	2135	22.515	9.586	2136	22.827	10.046
2137	22.571	9.671	2138	22.778	9.978	2139	22.624	9.754
2140	22.728	9.907	2141	22.677	9.832	2142	21.353	12.603
2143	21.238	13.197	2144	21.127	13.782	2145	21.018	14.360
2146	20.912	14.931	2147	20.808	15.493	2148	20.707	16.049
2149	20.608	16.596	2150	20.512	17.136	2151	20.419	17.668
2152	20.328	18.192	2153	20.239	18.709	2154	20.154	19.218
2155	20.071	19.720	2156	19.990	20.214	2157	19.912	20.700
2158	19.837	21.178	2159	19.764	21.649	2160	19.694	22.113
2161	19.626	22.568	2162	19.561	23.016	2163	19.499	23.457
2164	19.439	23.889	2165	19.543	24.961	2166	19.642	26.032
2167	19.737	27.102	2168	19.828	28.172	2169	19.914	29.241
2170	23.729	9.967	2171	23.401	10.170	2172	24.048	9.727
2173	24.365	9.450	2174	24.686	9.137	2175	25.018	8.787
2176	25.369	8.400	2177	25.880	8.285	2178	26.271	7.986
2179	21.592	12.038	2180	21.810	11.488	2181	22.006	10.956
2182	22.180	10.445	2183	22.318	9.868	2184	26.824	7.991
2185	27.383	7.997	2186	27.946	8.002	2187	28.516	8.008
2188	29.090	8.013	2189	29.670	8.019	2190	22.929	10.733
2191	22.973	10.567	2192	20.171	29.266	2193	20.468	30.379
2194	20.427	29.292	2195	20.719	31.512	2196	20.703	30.414
2197	20.913	33.787	2198	20.913	33.398	2199	20.933	31.557
2200	22.379	9.967	2201	22.855	10.473	2202	22.439	10.065
2203	22.794	10.421	2204	22.499	10.164	2205	22.732	10.365
2206	22.559	10.263	2207	22.620	10.362	2208	21.085	33.856
2209	21.487	12.626	2210	21.384	13.208	2211	21.283	13.784
2212	21.185	14.352	2213	21.090	14.914	2214	20.990	15.490
2215	20.907	16.018	2216	20.819	16.560	2217	20.733	17.095
2218	20.650	17.624	2219	20.570	18.146	2220	20.492	18.661
2221	20.417	19.170	2222	20.344	19.671	2223	20.273	20.166
2224	20.205	20.655	2225	20.140	21.137	2226	20.077	21.612
2227	20.016	22.080	2228	19.958	22.542	2229	19.902	22.997
2230	19.849	23.445	2231	19.799	23.887	2232	19.882	24.962
2233	19.960	26.037	2234	20.035	27.113	2235	20.105	28.189
2236	23.878	10.170	2237	24.204	9.967	2238	23.450	10.564
2239	24.525	9.727	2240	24.848	9.450	2241	25.178	9.137
2242	25.524	8.787	2243	25.892	8.400	2244	26.347	8.201
2245	21.714	12.070	2246	21.919	11.530	2247	22.102	11.009
2248	22.263	10.510	2249	26.889	8.204	2250	27.436	8.208
2251	27.987	8.211	2252	28.544	8.214	2253	29.104	8.217
2254	29.670	8.220	2255	22.956	10.939	2256	22.884	10.905
2257	23.027	10.970	2258	20.382	28.207	2259	20.682	29.318
2260	20.658	28.225	2261	20.937	30.448	2262	20.937	29.343
2263	21.117	32.726	2264	21.145	31.602	2265	21.170	30.483
2266	22.345	10.571	2267	22.811	10.868	2268	22.426	10.629
2269	22.736	10.827	2270	22.505	10.684	2271	22.661	10.782
2272	22.583	10.735	2273	21.255	33.924	2274	21.308	32.782
2275	21.620	12.647	2276	21.528	13.217	2277	21.439	13.783
2278	21.352	14.342	2279	21.268	14.896	2280	21.186	15.444
2281	21.106	15.986	2282	21.029	16.522	2283	20.954	17.053
2284	20.882	17.578	2285	20.812	18.098	2286	20.744	18.612
2287	20.679	19.120	2288	20.616	19.622	2289	20.556	20.118
2290	20.498	20.609	2291	20.442	21.094	2292	20.389	21.574
2293	20.485	22.243	2294	20.290	22.515	2295	20.244	22.978
2296	20.200	23.434	2297	20.159	23.885	2298	20.221	24.963
2299	20.279	26.043	2300	20.368	27.295	2301	23.922	10.562
2302	24.350	10.170	2303	24.676	9.967	2304	23.499	10.965
2305	25.001	9.727	2306	25.331	9.450	2307	25.672	9.137
2308	26.033	8.787	2309	26.420	8.400	2310	21.834	12.100
2311	22.027	11.570	2312	22.197	11.059	2313	26.951	8.400
2314	27.487	8.400	2315	28.026	8.400	2316	28.570	8.400
2317	29.118	8.400	2318	29.670	8.400	2319	23.000	11.363
2320	22.915	11.342	2321	22.829	11.318	2322	23.083	11.381
2323	20.629	27.135	2324	20.933	28.243	2325	20.926	27.146
2326	21.191	29.369	2327	21.208	28.261	2328	21.357	31.646
2329	21.403	30.517	2330	21.445	29.395	2331	22.291	11.106
2332	22.743	11.291	2333	22.384	11.150	2334	22.655	11.261
2335	22.475	11.190	2336	22.566	11.227	2337	21.425	33.992
2338	21.425	33.608	2339	21.568	31.691	2340	21.593	34.060
2341	21.752	12.664	2342	21.671	13.224	2343	21.594	13.779
2344	21.518	14.329	2345	21.445	14.875	2346	21.374	15.416
2347	21.305	15.952	2348	21.239	16.483	2349	21.175	17.010
2350	21.113	17.531	2351	21.053	18.048	2352	20.996	18.561
2353	20.941	19.068	2354	20.889	19.571	2355	20.838	20.069
2356	20.790	20.563	2357	20.745	21.051	2358	20.701	21.535
2359	20.660	22.014	2360	20.622	22.489	2361	20.585	22.958
2362	20.551	23.423	2363	20.519	23.883	2364	20.560	24.964
2365	20.596	26.048	2366	23.967	10.960	2367	24.390	10.559
2368	24.818	10.170	2369	25.146	9.967	2370	23.550	11.373
2371	25.475	9.727	2372	25.814	9.450	2373	26.168	9.137
2374	26.545	8.787	2375	21.954	12.126	2376	22.134	11.606
2377	27.059	8.787	2378	27.576	8.787	2379	28.095	8.787
2380	28.618	8.787	2381	29.142	8.787	2382	29.670	8.787

2383	23.044	11.793	2384	22.947	11.784	2385	22.849	11.773
2386	22.751	11.758	2387	23.139	11.798	2388	20.914	26.054
2389	21.222	27.158	2390	21.232	26.060	2391	21.483	28.279
2392	21.518	27.169	2393	21.635	30.552	2394	21.907	28.983
2395	21.758	28.296	2396	22.239	11.639	2397	22.651	11.741
2398	22.344	11.669	2399	22.549	11.720	2400	22.447	11.696
2401	21.687	32.893	2402	21.778	31.735	2403	21.866	30.586
2404	21.760	34.128	2405	21.876	32.949	2406	21.883	12.679
2407	21.814	13.228	2408	21.747	13.773	2409	21.683	14.314
2410	21.621	14.852	2411	21.561	15.385	2412	21.503	15.915
2413	21.448	16.442	2414	21.394	16.964	2415	21.343	17.483
2416	21.294	17.998	2417	21.247	18.509	2418	21.203	19.016
2419	21.161	19.520	2420	21.100	19.802	2421	21.083	20.515
2422	21.047	21.008	2423	21.014	21.496	2424	20.982	21.981
2425	20.953	22.462	2426	20.926	22.939	2427	20.902	23.412
2428	20.879	23.882	2429	20.899	24.966	2430	24.014	11.366
2431	24.431	10.955	2432	24.854	10.556	2433	25.281	10.170
2434	25.612	9.967	2435	23.602	11.789	2436	25.948	9.727
2437	26.296	9.450	2438	26.664	9.137	2439	22.072	12.150
2440	27.162	9.137	2441	27.661	9.137	2442	28.162	9.137
2443	28.663	9.137	2444	29.166	9.137	2445	29.670	9.137
2446	23.089	12.228	2447	22.981	12.231	2448	22.871	12.232
2449	22.760	12.229	2450	22.648	12.223	2451	23.197	12.222
2452	21.238	24.968	2453	21.549	26.066	2454	21.814	27.180
2455	21.951	29.446	2456	22.032	28.314	2457	22.189	12.170
2458	22.535	12.214	2459	22.306	12.188	2460	22.421	12.202
2461	21.988	31.779	2462	21.985	31.380	2463	22.203	29.471
2464	21.926	34.196	2465	21.926	33.820	2466	22.196	31.824
2467	22.013	12.691	2468	21.955	13.229	2469	21.900	13.764
2470	21.847	14.296	2471	21.796	14.826	2472	21.747	15.353
2473	21.700	15.877	2474	21.656	16.398	2475	21.613	16.917
2476	21.573	17.432	2477	21.535	17.945	2478	21.498	18.455
2479	21.464	18.963	2480	21.432	19.467	2481	21.402	19.969
2482	21.375	20.467	2483	21.349	20.963	2484	21.326	21.457
2485	21.304	21.947	2486	21.285	22.435	2487	21.220	23.065
2488	21.253	23.401	2489	21.200	24.365	2490	24.061	11.780
2491	24.473	11.359	2492	24.891	10.950	2493	25.313	10.554
2494	25.740	10.170	2495	26.075	9.967	2496	23.655	12.211
2497	26.419	9.727	2498	26.779	9.450	2499	27.261	9.450
2500	27.743	9.450	2501	28.225	9.450	2502	28.707	9.450
2503	29.189	9.450	2504	29.670	9.450	2505	23.136	12.670
2506	23.016	12.683	2507	22.894	12.694	2508	22.771	12.702
2509	22.647	12.707	2510	22.522	12.710	2511	23.256	12.653
2512	21.576	24.969	2513	21.866	26.072	2514	22.109	27.192
2515	22.305	28.332	2516	22.142	12.700	2517	22.396	12.709
2518	22.308	12.988	2519	22.327	30.655	2520	22.454	29.497
2521	22.091	34.263	2522	22.249	33.059	2523	22.404	31.868
2524	22.556	30.689	2525	22.255	34.330	2526	22.096	13.227
2527	22.052	13.753	2528	22.010	14.276	2529	21.970	14.798
2530	21.933	15.318	2531	21.897	15.837	2532	21.863	16.353
2533	21.832	16.868	2534	21.802	17.381	2535	21.774	17.892
2536	21.749	18.401	2537	21.725	18.908	2538	21.704	19.413
2539	21.684	19.917	2540	21.666	20.419	2541	21.651	20.919
2542	21.700	21.163	2543	21.626	21.913	2544	21.617	22.407
2545	21.609	22.900	2546	21.604	23.391	2547	21.600	23.880
2548	24.109	12.200	2549	24.516	11.771	2550	24.928	11.352
2551	25.346	10.945	2552	25.768	10.551	2553	26.194	10.170
2554	26.535	9.967	2555	23.709	12.641	2556	26.888	9.727
2557	27.356	9.727	2558	27.822	9.727	2559	28.286	9.727
2560	28.749	9.727	2561	29.210	9.727	2562	29.670	9.727
2563	23.316	13.091	2564	23.185	13.117	2565	23.052	13.140
2566	22.918	13.161	2567	22.783	13.178	2568	22.648	13.194
2569	22.511	13.206	2570	21.915	24.972	2571	22.183	26.078
2572	22.404	27.203	2573	22.578	28.350	2574	22.235	13.223
2575	22.374	13.216	2576	22.705	29.522	2577	22.434	33.114
2578	22.611	31.911	2579	22.784	30.723	2580	22.418	34.397
2581	22.418	34.003	2582	22.579	34.464	2583	22.740	34.530
2584	22.203	13.739	2585	22.173	14.254	2586	22.144	14.768
2587	22.118	15.282	2588	22.093	15.794	2589	22.070	16.306
2590	22.049	16.817	2591	22.031	17.327	2592	22.014	17.836
2593	21.999	18.345	2594	21.986	18.852	2595	21.975	19.359
2596	21.965	19.864	2597	21.958	20.369	2598	21.953	20.873
2599	21.949	21.376	2600	21.948	21.878	2601	21.948	22.380
2602	21.950	22.880	2603	21.955	23.380	2604	21.961	23.879
2605	24.159	12.628	2606	24.560	12.189	2607	24.967	11.761
2608	25.380	11.345	2609	25.797	10.940	2610	26.219	10.549
2611	26.644	10.170	2612	26.992	9.967	2613	23.764	13.077
2614	27.446	9.967	2615	27.896	9.967	2616	28.344	9.967
2617	28.789	9.967	2618	29.231	9.967	2619	29.670	9.967
2620	23.378	13.536	2621	23.234	13.570	2622	23.089	13.602
2623	22.944	13.631	2624	22.798	13.658	2625	22.650	13.682
2626	22.502	13.703	2627	22.254	24.974	2628	22.500	26.085
2629	22.699	27.215	2630	22.851	28.368	2631	22.353	13.722

2632	22.955	29.548	2633	22.817	31.955	2634	23.012	30.757
2635	22.802	33.223	2636	23.022	31.999	2637	23.050	34.195
2638	23.256	34.530	2639	22.334	14.229	2640	22.317	14.736
2641	22.302	15.243	2642	22.288	15.750	2643	22.276	16.257
2644	22.267	16.765	2645	22.259	17.272	2646	22.253	17.780
2647	22.248	18.287	2648	22.246	18.795	2649	22.245	19.303
2650	22.246	19.811	2651	22.249	20.319	2652	22.254	20.827
2653	22.261	21.335	2654	22.269	21.844	2655	22.280	22.352
2656	22.292	22.861	2657	22.306	23.369	2658	22.322	23.878
2659	24.209	13.063	2660	24.604	12.616	2661	25.006	12.178
2662	25.414	11.752	2663	25.827	11.338	2664	26.244	10.936
2665	26.665	10.546	2666	27.090	10.170	2667	23.821	13.521
2668	27.531	10.170	2669	27.968	10.170	2670	28.400	10.170
2671	28.828	10.170	2672	29.251	10.170	2673	29.670	10.170
2674	23.440	13.988	2675	23.285	14.030	2676	23.128	14.069
2677	22.971	14.106	2678	22.813	14.140	2679	22.654	14.172
2680	22.495	14.202	2681	22.593	24.976	2682	22.817	26.091
2683	22.994	27.227	2684	23.123	28.386	2685	23.205	29.573
2686	23.239	30.791	2687	23.226	32.042	2688	23.522	34.210
2689	23.763	34.530	2690	22.489	14.702	2691	22.485	15.202
2692	22.483	15.704	2693	22.482	16.207	2694	22.483	16.711
2695	22.486	17.216	2696	22.491	17.722	2697	22.497	18.229
2698	22.505	18.737	2699	22.515	19.246	2700	22.527	19.757
2701	22.540	20.268	2702	22.555	20.780	2703	22.572	21.294
2704	22.591	21.809	2705	22.611	22.324	2706	22.633	22.841
2707	22.657	23.359	2708	22.683	23.878	2709	24.260	13.506
2710	24.718	12.938	2711	25.047	12.603	2712	25.449	12.167
2713	25.857	11.743	2714	26.270	11.331	2715	26.687	10.931
2716	27.108	10.544	2717	23.878	13.972	2718	27.545	10.541
2719	27.979	10.538	2720	28.408	10.536	2721	28.833	10.533
2722	29.254	10.531	2723	29.670	10.528	2724	23.504	14.447
2725	23.337	14.495	2726	23.169	14.541	2727	23.000	14.584
2728	22.830	14.626	2729	22.660	14.665	2730	22.932	24.979
2731	23.134	26.098	2732	23.288	27.239	2733	23.395	28.404
2734	23.454	29.598	2735	23.466	30.824	2736	23.698	32.037
2737	24.115	34.208	2738	24.264	34.530	2739	22.667	15.159
2740	22.676	15.656	2741	22.687	16.154	2742	22.699	16.655
2743	22.713	17.157	2744	22.729	17.662	2745	22.746	18.169
2746	22.765	18.678	2747	22.785	19.188	2748	22.807	19.701
2749	22.913	20.282	2750	22.857	20.733	2751	22.884	21.252
2752	22.912	21.773	2753	22.943	22.296	2754	22.975	22.821
2755	23.008	23.348	2756	23.043	23.878	2757	24.313	13.955
2758	24.697	13.490	2759	25.088	13.035	2760	25.485	12.590
2761	25.888	12.156	2762	26.297	11.734	2763	26.709	11.323
2764	27.126	10.926	2765	23.937	14.429	2766	27.560	10.921
2767	27.991	10.916	2768	28.417	10.911	2769	28.839	10.906
2770	29.670	10.896	2771	29.256	10.901	2772	23.568	14.912
2773	23.390	14.966	2774	23.210	15.017	2775	23.030	15.067
2776	22.849	15.114	2777	23.271	24.981	2778	23.450	26.105
2779	23.582	27.250	2780	23.666	28.422	2781	23.702	29.624
2782	23.917	30.818	2783	24.165	32.032	2784	24.404	34.206
2785	24.756	34.530	2786	22.869	15.605	2787	22.891	16.100
2788	22.915	16.597	2789	22.940	17.098	2790	22.966	17.601
2791	22.994	18.108	2792	23.024	18.617	2793	23.055	19.130
2794	23.087	19.645	2795	23.122	20.164	2796	23.157	20.685
2797	23.195	21.210	2798	23.234	21.737	2799	23.274	22.268
2800	23.316	22.801	2801	23.359	23.338	2802	23.405	23.878
2803	24.366	14.412	2804	24.744	13.939	2805	25.130	13.475
2806	25.522	13.021	2807	25.920	12.578	2808	26.324	12.146
2809	26.732	11.725	2810	27.144	11.316	2811	23.996	14.894
2812	27.630	11.318	2813	28.002	11.302	2814	28.425	11.295
2815	28.844	11.288	2816	29.259	11.281	2817	29.670	11.273
2818	23.634	15.384	2819	23.444	15.443	2820	23.253	15.499
2821	23.062	15.553	2822	23.609	24.984	2823	23.766	26.112
2824	23.895	27.530	2825	23.937	28.440	2826	24.132	29.617
2827	24.362	30.811	2828	24.625	32.027	2829	24.756	34.208
2830	25.241	34.530	2831	25.718	34.530	2832	26.188	34.530
2833	23.095	16.044	2834	23.129	16.538	2835	23.165	17.036
2836	23.203	17.539	2837	23.242	18.045	2838	23.282	18.556
2839	23.324	19.070	2840	23.367	19.588	2841	23.412	20.110
2842	23.458	20.637	2843	23.506	21.167	2844	23.555	21.701
2845	23.605	22.239	2846	23.708	22.757	2847	23.711	23.328
2848	23.766	23.878	2849	24.673	14.682	2850	24.793	14.395
2851	25.173	13.923	2852	25.559	13.460	2853	25.953	13.007
2854	26.351	12.565	2855	26.755	12.135	2856	27.163	11.716
2857	24.057	15.366	2858	27.591	11.707	2859	28.015	11.697
2860	28.850	11.679	2861	28.434	11.688	2862	29.262	11.670
2863	29.670	11.661	2864	23.702	15.864	2865	23.500	15.926
2866	23.298	15.986	2867	23.948	24.987	2868	24.082	26.119
2869	24.169	27.274	2870	24.346	28.433	2871	24.557	29.609
2872	24.802	30.805	2873	25.079	32.022	2874	25.267	34.212
2875	25.837	34.220	2876	26.650	34.530	2877	26.385	34.222
2878	27.104	34.530	2879	23.344	16.477	2880	23.391	16.974

2881	23.439	17.475	2882	23.489	17.981	2883	23.540	18.493
2884	23.593	19.009	2885	23.647	19.530	2886	23.702	20.056
2887	23.759	20.588	2888	23.817	21.124	2889	23.876	21.665
2890	23.937	22.211	2891	23.999	22.762	2892	24.062	23.318
2893	24.127	23.878	2894	24.476	15.348	2895	24.842	14.859
2896	25.216	14.378	2897	25.598	13.906	2898	25.986	13.445
2899	26.380	12.993	2900	26.779	12.553	2901	27.183	12.124
2902	24.119	15.845	2903	27.607	12.113	2904	28.027	12.102
2905	28.856	12.080	2906	29.265	12.069	2907	28.443	12.091
2908	29.670	12.058	2909	23.770	16.350	2910	23.557	16.414
2911	24.287	24.991	2912	24.398	26.126	2913	24.557	27.268
2914	24.751	28.426	2915	24.978	29.602	2916	25.237	30.798
2917	25.527	32.017	2918	25.969	32.012	2919	26.800	34.208
2920	26.404	32.007	2921	27.551	34.530	2922	27.222	34.222
2923	27.990	34.530	2924	23.615	16.909	2925	23.675	17.410
2926	23.736	17.916	2927	23.798	18.429	2928	23.861	18.947
2929	23.926	19.472	2930	23.992	20.002	2931	24.059	20.538
2932	24.127	21.080	2933	24.197	21.628	2934	24.268	22.182
2935	24.340	22.742	2936	24.414	23.307	2937	24.488	23.879
2938	24.533	15.827	2939	24.893	15.330	2940	25.261	14.841
2941	25.637	14.361	2942	26.020	13.890	2943	26.409	13.429
2944	26.803	12.979	2945	27.203	12.540	2946	24.181	16.331
2947	27.623	12.528	2948	28.453	12.502	2949	28.040	12.515
2950	28.862	12.490	2951	29.268	12.477	2952	29.670	12.465
2953	23.840	16.843	2954	24.625	24.994	2955	24.766	26.121
2956	24.942	27.261	2957	25.152	28.419	2958	25.435	29.560
2959	25.667	30.792	2960	26.091	30.785	2961	26.834	32.002
2962	26.510	30.779	2963	27.615	34.225	2964	27.257	31.997
2965	28.422	34.530	2966	28.000	34.227	2967	28.845	34.530
2968	29.262	34.530	2969	23.910	17.343	2970	23.982	17.850
2971	24.055	18.364	2972	24.129	18.884	2973	24.205	19.412
2974	24.281	19.946	2975	24.359	20.488	2976	24.438	21.036
2977	24.518	21.591	2978	24.599	22.153	2979	24.682	22.722
2980	24.765	23.297	2981	24.850	23.880	2982	24.590	16.313
2983	24.944	15.808	2984	25.307	15.311	2985	25.677	14.823
2986	26.054	14.344	2987	26.438	13.874	2988	26.828	13.414
2989	27.223	12.965	2990	24.245	16.825	2991	27.640	12.951
2992	28.462	12.923	2993	28.868	12.909	2994	28.053	12.937
2995	29.271	12.895	2996	29.670	12.881	2997	24.972	24.991
2998	25.131	26.116	2999	25.324	27.255	3000	25.549	28.412
3001	25.806	29.588	3002	26.213	29.580	3003	26.924	30.772
3004	26.615	29.573	3005	27.675	31.992	3006	27.332	30.766
3007	28.395	34.227	3008	28.086	31.987	3009	28.787	34.230
3010	29.670	34.530	3011	29.185	34.232	3012	24.310	17.325
3013	24.377	17.832	3014	24.444	18.347	3015	24.512	18.868
3016	24.581	19.397	3017	24.652	19.932	3018	24.724	20.475
3019	24.796	21.025	3020	24.870	21.582	3021	24.945	22.146
3022	25.021	22.717	3023	25.098	23.295	3024	25.176	23.880
3025	24.649	16.806	3026	24.996	16.294	3027	25.353	15.790
3028	25.717	15.293	3029	26.089	14.805	3030	26.468	14.327
3031	26.854	13.858	3032	27.244	13.399	3033	28.066	13.369
3034	27.657	13.384	3035	28.472	13.353	3036	28.875	13.338
3037	29.274	13.323	3038	29.670	13.308	3039	25.430	25.558
3040	25.493	26.110	3041	25.702	27.248	3042	25.943	28.404
3043	26.333	28.397	3044	27.013	29.566	3045	26.719	28.390
3046	27.735	30.759	3047	27.406	29.559	3048	28.491	31.982
3049	28.133	30.753	3050	28.890	31.976	3051	29.670	33.234
3052	29.283	31.971	3053	24.708	17.306	3054	24.769	17.814
3055	24.830	18.329	3056	24.893	18.852	3057	24.957	19.381
3058	25.021	19.918	3059	25.087	20.462	3060	25.153	21.014
3061	25.221	21.573	3062	25.290	22.138	3063	25.359	22.712
3064	25.430	23.292	3065	25.502	23.880	3066	25.050	16.787
3067	25.400	16.275	3068	25.759	15.771	3069	26.125	15.275
3070	26.499	14.787	3071	26.879	14.309	3072	27.266	13.841
3073	28.080	13.809	3074	28.482	13.792	3075	27.674	13.825
3076	28.882	13.776	3077	29.277	13.760	3078	29.670	13.744
3079	25.661	24.986	3080	25.854	26.105	3081	26.078	27.242
3082	26.451	27.235	3083	27.101	28.383	3084	26.821	27.229
3085	27.795	29.551	3086	27.479	28.375	3087	28.525	30.746
3088	28.179	29.544	3089	29.075	31.063	3090	29.670	31.966
3091	29.294	30.733	3092	25.104	17.288	3093	25.159	17.796
3094	25.215	18.312	3095	25.272	18.835	3096	25.330	19.366
3097	25.389	19.904	3098	25.448	20.450	3099	25.509	21.003
3100	25.571	21.563	3101	25.633	22.131	3102	25.697	22.707
3103	25.761	23.290	3104	25.827	23.880	3105	25.455	16.925
3106	25.801	16.257	3107	26.162	15.752	3108	26.531	15.256
3109	26.906	14.770	3110	27.287	14.292	3111	28.493	14.241
3112	28.094	14.258	3113	28.888	14.224	3114	27.692	14.275
3115	29.281	14.207	3116	29.670	14.189	3117	26.003	24.983
3118	26.212	26.100	3119	26.568	26.095	3120	27.187	27.222
3121	26.922	26.090	3122	27.854	28.368	3123	27.551	27.216
3124	28.559	29.537	3125	28.225	28.361	3126	28.934	29.530
3127	29.670	30.727	3128	29.304	29.522	3129	25.497	17.270

3130	25.547	17.779	3131	25.597	18.295	3132	25.649	18.819
3133	25.701	19.351	3134	25.754	19.890	3135	25.808	20.437
3136	25.863	20.992	3137	25.990	21.583	3138	25.976	22.124
3139	26.033	22.702	3140	26.092	23.287	3141	26.151	23.880
3142	25.844	16.750	3143	26.200	16.238	3144	26.563	15.734
3145	26.933	15.238	3146	27.310	14.752	3147	28.895	14.681
3148	28.503	14.698	3149	28.108	14.716	3150	29.284	14.663
3151	27.711	14.734	3152	29.670	14.645	3153	26.344	24.980
3154	26.683	24.977	3155	27.292	25.567	3156	27.021	24.974
3157	27.912	27.209	3158	27.622	26.080	3159	28.592	28.354
3160	28.270	27.203	3161	28.955	28.346	3162	29.670	29.515
3163	29.314	28.339	3164	25.888	17.252	3165	25.932	17.761
3166	25.978	18.278	3167	26.024	18.803	3168	26.071	19.336
3169	26.119	19.876	3170	26.167	20.425	3171	26.216	20.981
3172	26.266	21.545	3173	26.317	22.117	3174	26.369	22.697
3175	26.421	23.285	3176	26.474	23.880	3177	26.238	16.732
3178	26.596	16.219	3179	26.961	15.715	3180	27.333	15.220
3181	27.729	15.202	3182	29.288	15.128	3183	28.902	15.147
3184	28.514	15.165	3185	28.123	15.183	3186	29.670	15.110
3187	26.797	23.880	3188	27.357	24.971	3189	27.119	23.880
3190	27.969	26.075	3191	27.692	24.968	3192	28.624	27.196
3193	28.314	26.070	3194	28.955	26.665	3195	29.782	28.075
3196	29.324	27.183	3197	26.277	17.233	3198	26.316	17.743
3199	26.356	18.261	3200	26.397	18.787	3201	26.439	19.320
3202	26.481	19.862	3203	26.524	20.412	3204	26.568	20.970
3205	26.612	21.536	3206	26.658	22.110	3207	26.703	22.692
3208	26.750	23.282	3209	26.629	16.713	3210	26.989	16.201
3211	27.356	15.697	3212	27.748	15.678	3213	28.138	15.660
3214	29.670	15.585	3215	29.291	15.604	3216	28.909	15.622
3217	28.525	15.641	3218	27.323	23.132	3219	27.441	23.880
3220	27.405	23.277	3221	28.026	24.965	3222	27.761	23.880
3223	28.656	26.065	3224	28.357	24.962	3225	28.996	26.060
3226	29.670	27.177	3227	29.334	26.055	3228	26.663	17.215
3229	26.697	17.725	3230	26.733	18.244	3231	26.768	18.770
3232	26.805	19.305	3233	26.842	19.848	3234	26.880	20.400
3235	26.918	20.959	3236	26.957	21.527	3237	26.997	22.103
3238	27.037	22.687	3239	27.018	16.695	3240	27.380	16.182
3241	27.768	16.163	3242	28.153	16.145	3243	28.536	16.126
3244	29.670	16.070	3245	29.295	16.089	3246	28.917	16.107
3247	27.369	22.682	3248	27.731	23.274	3249	27.701	22.677
3250	28.081	23.880	3251	28.056	23.272	3252	28.688	24.959
3253	28.400	23.880	3254	29.017	24.957	3255	29.670	26.050
3256	29.344	24.954	3257	27.047	17.197	3258	27.077	17.707
3259	27.107	18.227	3260	27.138	18.754	3261	27.169	19.290
3262	27.201	19.834	3263	27.234	20.387	3264	27.267	20.948
3265	27.301	21.518	3266	27.335	22.096	3267	27.404	16.676
3268	27.788	16.657	3269	28.169	16.639	3270	28.548	16.620
3271	28.924	16.602	3272	29.670	16.565	3273	29.298	16.583
3274	27.672	22.088	3275	28.032	22.672	3276	28.008	22.081
3277	28.381	23.269	3278	28.361	22.667	3279	28.719	23.880
3280	28.704	23.267	3281	29.037	23.880	3282	29.670	24.951
3283	29.354	23.880	3284	27.428	17.178	3285	27.454	17.690
3286	27.479	18.209	3287	27.528	18.620	3288	27.532	19.275
3289	27.559	19.820	3290	27.586	20.374	3291	27.614	20.937
3292	27.643	21.509	3293	27.808	17.160	3294	28.185	17.142
3295	28.560	17.124	3296	28.932	17.105	3297	29.302	17.087
3298	29.670	17.069	3299	27.984	21.499	3300	28.342	22.074
3301	28.323	21.490	3302	28.690	22.662	3303	28.676	22.067
3304	29.027	23.264	3305	29.018	22.657	3306	29.349	23.261
3307	29.670	23.880	3308	27.828	17.672	3309	27.849	18.192
3310	27.871	18.721	3311	27.893	19.259	3312	27.915	19.806
3313	27.937	20.362	3314	27.960	20.926	3315	28.201	17.654
3316	28.572	17.636	3317	28.940	17.618	3318	29.306	17.601
3319	29.670	17.583	3320	28.305	20.915	3321	28.662	21.481
3322	29.008	22.060	3323	29.344	22.652	3324	29.820	23.128
3325	28.218	18.175	3326	28.235	18.705	3327	28.252	19.244
3328	28.269	19.792	3329	28.287	20.349	3330	28.584	18.158
3331	28.948	18.141	3332	29.310	18.124	3333	29.670	18.107
3334	28.648	20.904	3335	28.999	21.472	3336	29.340	22.053
3337	29.670	22.647	3338	28.596	18.689	3339	28.609	19.229
3340	28.622	19.778	3341	28.635	20.337	3342	28.956	18.673
3343	29.314	18.656	3344	29.670	18.640	3345	28.990	20.893
3346	29.335	21.463	3347	29.670	22.046	3348	28.964	19.214
3349	28.973	19.764	3350	28.982	20.324	3351	29.318	19.199
3352	29.670	19.183	3353	29.331	20.882	3354	29.670	21.454
3355	29.322	19.750	3356	29.327	20.312	3357	29.670	19.736
3358	29.670	20.871	3359	29.670	20.299			

ELEMENT VERTICES (4(415))

1	1	2	3	2	2	5	3	3	2	4	5	4	4	8	5
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ELEMENT ID ASSIGNMENTS: # OF CODES; ELEM.#,ID (I2),8(I215)

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6465 10 6466 10
ELEM ID DEFINT.: ID, RECH(FT/D, - IS RECHARGE), VPRM(1/D), HDLEAK (I5,3F10.0)
1 -0.0002 0.0000 0.00
2 -0.0002 0.0000 0.00
3 -0.0002 0.0000 0.00
4 -0.0002 0.0000 0.00
5 -0.0001 0.0000 0.00
6 -0.0001 0.0000 0.00
7 -0.0001 0.0000 0.00
8 -0.0001 0.0000 0.00
9 -0.0001 0.0000 0.00
10 -0.0001 0.0000 0.00
31 -0.00137 0.0000 0.00
33 -0.00105 0.0000 0.00
35 -0.0000 0.0000 0.00
65 -0.0122 0.0000 0.00
GS ARRAY: INP,SFCT (I2,F10.0); NODE,GROUND SURFACE ELEVATION (5(I5,F10.0))
1 1.0000
1 5129.4447 2 5140.7201 3 5127.1738 4 5142.5613 5 5127.4628
6 5127.8363 7 5146.9969 8 5129.4176 9 5128.1809 10 5126.1001
11 5149.0465 12 5146.0134 13 5129.8582 14 5128.0755 15 5127.7593
16 5128.3173 17 5149.5409 18 5136.1113 19 5132.0060 20 5129.1152
21 5129.5118 22 5127.4042 23 5129.4233 24 5149.4295 25 5137.5508
26 5133.6523 27 5130.2817 28 5130.6920 29 5130.9855 30 5128.3482
31 5128.3110 32 5147.3604 33 5138.9418 34 5134.8354 35 5131.3708
36 5132.4126 37 5132.5294 38 5129.7477 39 5127.4007 40 5126.8978
41 5145.4277 42 5140.2176 43 5139.7340 44 5132.0192 45 5134.6688
46 5139.1257 47 5131.8738 48 5128.2196 49 5125.2732 50 5124.6316
51 5144.0722 52 5140.9371 53 5144.4277 54 5133.6414 55 5142.0246
56 5145.7745 57 5139.3132 58 5131.6952 59 5127.3056 60 5124.9845
61 5125.3871 62 5144.0027 63 5140.9668 64 5140.8888 65 5138.3786
66 5146.7521 67 5142.7706 68 5145.7494 69 5140.6834 70 5130.4015
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 3291 5204.6655 3292 5200.4231 3293 5234.1684 3294 5235.6519 3295 5237.0096
 3296 5236.0620 3297 5235.3751 3298 5236.6195 3299 5201.5146 3300 5198.4782
 3301 5202.6956 3302 5195.3355 3303 5200.5434 3304 5189.3813 3305 5195.9747
 3306 5189.7482 3307 5185.2260 3308 5232.0536 3309 5226.6601 3310 5221.4359
 3311 5217.6188 3312 5214.8509 3313 5211.2355 3314 5206.1633 3315 5231.5254
 3316 5232.7580 3317 5232.3479 3318 5231.4862 3319 5233.7011 3320 5207.7430
 3321 5204.5900 3322 5200.6454 3323 5196.2365 3324 5191.3772 3325 5225.6911
 3326 5221.2906 3327 5219.3427 3328 5217.9320 3329 5213.7498 3330 5226.8882
 3331 5227.4140 3332 5228.2045 3333 5232.0643 3334 5210.2995 3335 5205.4077
 3336 5200.5153 3337 5195.3114 3338 5222.3849 3339 5222.7765 3340 5223.6359
 3341 5217.7607 3342 5226.1544 3343 5230.7802 3344 5232.1914 3345 5210.6133
 3346 5205.7282 3347 5200.1882 3348 5224.9434 3349 5223.1982 3350 5217.0881
 3351 5226.0454 3352 5229.7503 3353 5210.9046 3354 5205.4543 3355 5223.0537
 3356 5216.6667 3357 5224.9144 3358 5211.7149 3359 5218.3934
 ZBED ARRAY: INP, SFCT (I2, F10.0); NODE , BEDROCK ELEVATION (5(I5, F10.0))
 1 1.0000
 1 5080.0613 2 5080.5223 3 5080.8140 4 5082.3097 5 5083.4592
 6 5083.9279 7 5083.6762 8 5083.4239 9 5083.1709 10 5083.5861
 11 5081.7525 12 5082.6807 13 5080.5572 14 5080.6219 15 5080.1033
 16 5076.1856 17 5078.0083 18 5078.8291 19 5075.2575 20 5076.4334
 21 5071.6757 22 5073.7695 23 5070.9392 24 5076.8517 25 5074.8233
 26 5072.9252 27 5070.9712 28 5068.7307 29 5068.1716 30 5069.1693
 31 5068.0597 32 5081.2807 33 5076.8411 34 5073.3741 35 5069.6959
 36 5069.0304 37 5067.0263 38 5066.9614 39 5067.3373 40 5066.7689
 41 5084.4025 42 5081.2007 43 5076.4314 44 5073.0688 45 5072.2090
 46 5067.8995 47 5066.9638 48 5066.7720 49 5068.7559 50 5067.4170
 51 5087.6836 52 5084.2106 53 5079.7203 54 5078.0043 55 5076.9939
 56 5071.5494 57 5068.7428 58 5067.3435 59 5067.0194 60 5069.9307
 61 5069.8999 62 5089.7568 63 5087.5179 64 5085.8933 65 5083.0935
 66 5082.8875 67 5079.1482 68 5074.7661 69 5069.6822 70 5067.7736
 71 5068.3992 72 5070.4899 73 5069.4196 74 5091.5724 75 5089.7901
 76 5089.5706 77 5087.6988 78 5088.3113 79 5086.2470 80 5085.4446
 81 5077.4266 82 5070.9848 83 5072.0056 84 5070.7821 85 5072.0903
 86 5069.8976 87 5095.0114 88 5093.0893 89 5091.9702 90 5094.0088
 91 5098.9900 92 5092.2848 93 5095.2155 94 5088.8985 95 5078.6189
 96 5075.8709 97 5079.7856 98 5075.1107 99 5073.0000 100 5073.7086
 101 5096.8919 102 5097.9074 103 5096.5976 104 5098.8947 105 5075.1000
 106 5076.5500 107 5078.6900 108 5081.4300 109 5082.9200 110 5083.6700
 111 5084.6200 112 5085.2500 113 5085.9600 114 5085.8200 115 5084.6700
 116 5083.2200 117 5083.1400 118 5083.2800 119 5083.1500 120 5085.0000
 121 5088.4900 122 5092.2500 123 5094.7100 124 5097.1900 125 5098.6400
 126 5099.9100 127 5101.4400 128 5101.8200 129 5101.4600 130 5101.8300
 131 5103.9200 132 5105.8500 133 5107.2500 134 5109.4610 135 5112.4164
 136 5114.4387 137 5116.6502 138 5118.7221 139 5119.3426 140 5118.2811
 141 5116.4974 142 5116.8024 143 5106.1227 144 5098.9378 145 5097.8942
 146 5096.8100 147 5090.6532 148 5084.0561 149 5087.1256 150 5086.6407
 151 5076.3418 152 5072.1200 153 5098.6670 154 5101.1801 155 5100.0032
 156 5104.0566 157 5076.1400 158 5076.0800 159 5077.8600 160 5082.5600
 161 5081.5800 162 5082.7900 163 5086.7100 164 5087.2200 165 5087.8600
 166 5086.2500 167 5088.1000 168 5087.2600 169 5087.0300 170 5083.8400
 171 5088.2200 172 5090.8400 173 5094.0200 174 5098.4000 175 5100.4300
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 181 5102.3900 182 5103.1600 183 5105.1400 184 5107.5000 185 5109.9532
 186 5112.8173 187 5114.9326 188 5117.9119 189 5119.4029 190 5119.4904
 191 5118.6184 192 5117.2004 193 5118.4752 194 5110.6681 195 5102.8741
 196 5102.9685 197 5102.7200 198 5099.1300 199 5093.6643 200 5089.6068

201 5093.8940	202 5089.5607	203 5080.2354	204 5080.9906	205 5099.4602
206 5108.5011	207 5105.5800	208 5106.8293	209 5082.0700	210 5082.4700
211 5082.9800	212 5083.5600	213 5084.1800	214 5085.2100	215 5087.4700
216 5089.7100	217 5089.8900	218 5090.2700	219 5090.2300	220 5090.4300
221 5093.3400	222 5097.0900	223 5100.2100	224 5101.2500	225 5100.7700
226 5100.8400	227 5101.3700	228 5103.5400	229 5104.5500	230 5103.2300
231 5102.0600	232 5102.2400	233 5103.7900	234 5105.6400	235 5107.8800
236 5111.0574	237 5113.4613	238 5115.9790	239 5118.7634	240 5120.5297
241 5119.9386	242 5118.4444	243 5117.3191	244 5119.0432	245 5112.2912
246 5110.4293	247 5115.3401	248 5111.1429	249 5107.2500	250 5103.4100
251 5095.6143	252 5095.8686	253 5099.6765	254 5092.9896	255 5093.3480
256 5087.4053	257 5101.7996	258 5109.7262	259 5113.8927	260 5110.7273
261 5090.5366	262 5093.0114	263 5088.8800	264 5088.0100	265 5086.7100
266 5088.6400	267 5090.3200	268 5092.9400	269 5095.8300	270 5097.7100
271 5100.3200	272 5102.4400	273 5104.6800	274 5107.4300	275 5108.6800
276 5104.5200	277 5101.0800	278 5102.0100	279 5103.7100	280 5103.6000
281 5103.1200	282 5102.8800	283 5103.0200	284 5104.1600	285 5106.3400
286 5111.2031	287 5112.3243	288 5114.3180	289 5117.1471	290 5119.3305
291 5120.7435	292 5120.5128	293 5119.0757	294 5117.8798	295 5119.1289
296 5117.3110	297 5112.4324	298 5117.6928	299 5117.6830	300 5113.7100
301 5111.7100	302 5104.3739	303 5099.5338	304 5102.5559	305 5104.8371
306 5107.0686	307 5106.1531	308 5104.8509	309 5105.0459	310 5110.8925
311 5115.6484	312 5117.7383	313 5104.1021	314 5104.9608	315 5105.9034
316 5106.4960	317 5107.0803	318 5108.8859	319 5090.7500	320 5094.3200
321 5099.5000	322 5104.5900	323 5107.9200	324 5109.1300	325 5109.0300
326 5107.7900	327 5105.2900	328 5103.4600	329 5102.9700	330 5103.6600
331 5103.6700	332 5103.3700	333 5103.2200	334 5103.7900	335 5105.0000
336 5106.8800	337 5109.0200	338 5113.1522	339 5114.8593	340 5118.3780
341 5121.0099	342 5122.0332	343 5120.5745	344 5119.1601	345 5118.8334
346 5119.7425	347 5119.9540	348 5117.4188	349 5119.6222	350 5121.6605
351 5116.2000	352 5115.8300	353 5112.6600	354 5106.0047	355 5105.1789
356 5111.2719	357 5115.3213	358 5114.2045	359 5115.3280	360 5115.8940
361 5109.0110	362 5112.5258	363 5118.2338	364 5120.1271	365 5115.1691
366 5114.5740	367 5114.5822	368 5115.1190	369 5114.0337	370 5112.8155
371 5112.5452	372 5111.3499	373 5110.2855	374 5109.2800	375 5109.6500
376 5109.1100	377 5107.1600	378 5104.9600	379 5103.6400	380 5104.1100
381 5104.8300	382 5104.6000	383 5104.0800	384 5103.8700	385 5104.1300
386 5105.7500	387 5107.4900	388 5109.6100	389 5116.3399	390 5116.6445
391 5119.2292	392 5121.6618	393 5122.7179	394 5121.2116	395 5119.1546
396 5118.9989	397 5120.5476	398 5120.4017	399 5119.1333	400 5120.4863
401 5123.9266	402 5122.8255	403 5120.9200	404 5117.7100	405 5113.9700
406 5111.2200	407 5113.9934	408 5118.3369	409 5119.3188	410 5122.0386
411 5122.5205	412 5121.8650	413 5113.4927	414 5117.0696	415 5119.4593
416 5121.3619	417 5121.6874	418 5120.7335	419 5119.6053	420 5118.5243
421 5116.9550	422 5115.0270	423 5112.7090	424 5111.8580	425 5110.0032
426 5109.5927	427 5108.2546	428 5107.5081	429 5107.5190	430 5107.8041
431 5108.3757	432 5110.0557	433 5110.8580	434 5111.9237	435 5113.4570
436 5114.4194	437 5117.7829	438 5118.1796	439 5118.3138	440 5117.8884
441 5118.1872	442 5120.3578	443 5123.4783	444 5123.5742	445 5120.8679
446 5119.3688	447 5119.1418	448 5120.8120	449 5122.2425	450 5120.0125
451 5120.7349	452 5124.4798	453 5125.5844	454 5124.0635	455 5121.4589
456 5121.9070	457 5118.6658	458 5116.1170	459 5118.0541	460 5120.7381
461 5123.1261	462 5125.3585	463 5125.8759	464 5124.9333	465 5119.1797
466 5119.1114	467 5120.5716	468 5122.8872	469 5124.3156	470 5123.1896
471 5121.1012	472 5119.4876	473 5117.2227	474 5114.1164	475 5111.5814
476 5110.3694	477 5109.5227	478 5109.1080	479 5108.9113	480 5108.9008
481 5109.2517	482 5109.4824	483 5111.0573	484 5111.9566	485 5113.4489
486 5114.7766	487 5116.5878	488 5117.9197	489 5119.2861	490 5119.9940
491 5119.7009	492 5119.4646	493 5121.7466	494 5125.2326	495 5125.0203
496 5121.3819	497 5119.1925	498 5119.5380	499 5121.1915	500 5125.2314
501 5122.8792	502 5122.7222	503 5126.1240	504 5128.2836	505 5127.5235
506 5126.7033	507 5125.5901	508 5125.0545	509 5121.6923	510 5121.4037
511 5122.4366	512 5124.7564	513 5127.0963	514 5128.6538	515 5129.8339
516 5128.1703	517 5119.8870	518 5119.8977	519 5122.2349	520 5124.4237
521 5128.0542	522 5124.3269	523 5123.1174	524 5118.3164	525 5116.3532
526 5112.2552	527 5110.0300	528 5110.5000	529 5109.7169	530 5109.6563
531 5109.5122	532 5109.5764	533 5109.8290	534 5110.7003	535 5112.5729
536 5115.1733	537 5115.7492	538 5118.7251	539 5119.3062	540 5120.4520
541 5120.9437	542 5121.1596	543 5121.4331	544 5123.3924	545 5127.6660
546 5126.0324	547 5121.9859	548 5119.2924	549 5119.8847	550 5123.1221
551 5143.0100	552 5142.0400	553 5127.9676	554 5130.0916	555 5136.3645
556 5133.8662	557 5130.4232	558 5130.2088	559 5129.0543	560 5126.6477
561 5124.2231	562 5126.6762	563 5127.4852	564 5129.2928	565 5131.4375
566 5132.1890	567 5133.1284	568 5131.4737	569 5120.2328	570 5120.6837
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576 5118.3667	577 5113.8300	578 5113.0300	579 5109.5275	580 5110.9145
581 5110.5637	582 5111.3590	583 5110.1533	584 5110.1871	585 5110.7221
586 5111.5592	587 5114.8822	588 5116.5917	589 5119.1440	590 5119.9992
591 5121.2817	592 5121.7680	593 5122.5071	594 5122.1733	595 5126.8611
596 5128.6509	597 5127.6639	598 5121.2810	599 5119.4857	600 5120.1766
601 5124.8081	602 5135.7900	603 5140.0900	604 5139.6200	605 5138.1258
606 5144.8762	607 5145.0879	608 5139.5298	609 5136.1436	610 5134.1326
611 5131.0200	612 5130.6639	613 5132.0158	614 5131.6709	615 5133.6758

616 5134.3008 617 5135.6498 618 5136.3388 619 5135.8170 620 5134.9619
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 1006 5128.9232 1007 5127.6041 1008 5132.0451 1009 5132.0045 1010 5155.9000
 1011 5164.3800 1012 5168.6000 1013 5152.8200 1014 5145.3300 1015 5147.9100
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 3306 5168.9176 3307 5165.0062 3308 5192.3642 3309 5190.1012 3310 5187.1263
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 3316 5206.7900 3317 5213.2964 3318 5220.4677 3319 5222.2765 3320 5173.8276
 3321 5175.3582 3322 5172.1788 3323 5174.9068 3324 5177.6147 3325 5197.9694
 3326 5195.7525 3327 5191.9717 3328 5186.8146 3329 5180.1582 3330 5205.3070
 3331 5211.0751 3332 5218.4727 3333 5219.8086 3334 5181.8609 3335 5178.1015
 3336 5180.0722 3337 5177.4881 3338 5203.5633 3339 5200.1796 3340 5196.2907
 3341 5189.7805 3342 5208.8253 3343 5216.2014 3344 5217.4568 3345 5184.9544
 3346 5186.5548 3347 5182.2767 3348 5205.2564 3349 5199.6137 3350 5193.0807
 3351 5213.4518 3352 5214.5486 3353 5195.1027 3354 5189.3706 3355 5208.2324
 3356 5202.4761 3357 5210.3834 3358 5199.0197 3359 5205.7303
 ZBASE ARRAY: INP,SFCT (I2,F10.0); NODE,AQUIFER BASE ELEVATION (S(I5,F10.0))
 1 1.0000
 1 5079.06 2 5079.52 3 5079.81 4 5081.31 5 5082.46
 6 5082.93 7 5082.68 8 5082.42 9 5082.17 10 5082.47
 11 5080.75 12 5081.68 13 5079.56 14 5079.62 15 5079.10
 16 5075.19 17 5077.01 18 5077.83 19 5073.79 20 5075.43
 21 5070.68 22 5072.77 23 5069.94 24 5075.85 25 5073.82
 26 5071.03 27 5068.78 28 5067.23 29 5067.17 30 5068.17
 31 5067.06 32 5080.28 33 5075.84 34 5072.37 35 5068.30
 36 5067.53 37 5066.03 38 5065.96 39 5066.34 40 5065.77
 41 5083.40 42 5080.20 43 5075.43 44 5072.07 45 5071.21
 46 5066.90 47 5065.96 48 5065.77 49 5067.76 50 5066.42
 51 5086.68 52 5083.21 53 5078.72 54 5077.00 55 5075.12
 56 5070.39 57 5067.74 58 5066.34 59 5066.02 60 5068.93
 61 5068.90 62 5088.76 63 5086.52 64 5084.89 65 5082.09
 66 5079.91 67 5074.15 68 5071.24 69 5068.68 70 5066.77
 71 5067.40 72 5069.49 73 5068.42 74 5090.57 75 5088.79
 76 5088.57 77 5086.70 78 5085.86 79 5078.66 80 5074.50
 81 5071.77 82 5069.98 83 5071.01 84 5069.65 85 5071.09
 86 5068.90 87 5094.01 88 5092.09 89 5090.97 90 5093.01
 91 5097.24 92 5086.21 93 5079.24 94 5075.30 95 5073.32
 96 5074.87 97 5078.79 98 5074.11 99 5071.00 100 5072.71
 101 5095.89 102 5096.91 103 5095.60 104 5097.89 105 5073.10
 106 5074.55 107 5076.69 108 5079.43 109 5080.92 110 5081.89
 111 5083.55 112 5083.56 113 5084.23 114 5083.99 115 5070.91
 116 5071.25 117 5072.20 118 5072.56 119 5073.22 120 5073.52
 121 5075.48 122 5077.18 123 5082.31 124 5082.57 125 5081.21
 126 5083.41 127 5084.30 128 5086.67 129 5088.07 130 5090.97
 131 5092.43 132 5093.22 133 5093.16 134 5105.07 135 5105.64
 136 5105.71 137 5105.31 138 5104.04 139 5101.97 140 5100.36
 141 5099.99 142 5099.95 143 5103.28 144 5097.94 145 5089.22
 146 5080.73 147 5076.94 148 5080.59 149 5086.13 150 5085.64

151	5075.28	152	5070.12	153	5097.67	154	5100.18	155	5099.00
156	5100.53	157	5074.14	158	5074.08	159	5075.86	160	5069.60
161	5071.21	162	5070.74	163	5084.86	164	5071.77	165	5073.06
166	5072.65	167	5075.40	168	5075.16	169	5075.51	170	5074.21
171	5076.20	172	5077.15	173	5077.11	174	5080.58	175	5071.71
176	5087.22	177	5087.99	178	5086.56	179	5086.57	180	5088.24
181	5090.37	182	5092.48	183	5093.81	184	5093.98	185	5105.23
186	5106.02	187	5106.26	188	5105.58	189	5104.16	190	5101.96
191	5100.33	192	5099.91	193	5099.98	194	5104.59	195	5101.87
196	5099.44	197	5091.03	198	5085.74	199	5083.93	200	5087.87
201	5091.24	202	5088.56	203	5079.24	204	5078.96	205	5098.46
206	5102.85	207	5103.14	208	5102.45	209	5080.70	210	5080.47
211	5080.98	212	5076.78	213	5082.18	214	5083.21	215	5085.47
216	5087.71	217	5087.89	218	5075.84	219	5079.34	220	5088.43
221	5092.00	222	5092.78	223	5093.77	224	5094.21	225	5095.87
226	5096.43	227	5087.89	228	5088.86	229	5089.71	230	5088.89
231	5088.61	232	5089.15	233	5090.36	234	5092.58	235	5093.72
236	5105.99	237	5106.61	238	5106.56	239	5105.67	240	5103.73
241	5101.56	242	5100.12	243	5099.78	244	5100.15	245	5106.09
246	5105.68	247	5105.36	248	5104.00	249	5097.62	250	5095.10
251	5092.93	252	5092.55	253	5094.05	254	5079.34	255	5075.74
256	5086.41	257	5100.80	258	5105.14	259	5095.91	260	5106.63
261	5078.32	262	5076.96	263	5077.42	264	5086.01	265	5084.71
266	5086.64	267	5088.32	268	5090.94	269	5094.38	270	5094.47
271	5081.18	272	5082.95	273	5095.82	274	5096.19	275	5097.30
276	5098.34	277	5099.48	278	5100.89	279	5101.05	280	5102.44
281	5101.80	282	5100.88	283	5101.02	284	5102.16	285	5105.09
286	5105.88	287	5106.46	288	5107.21	289	5107.17	290	5106.21
291	5103.91	292	5101.07	293	5099.86	294	5099.63	295	5100.33
296	5099.00	297	5107.93	298	5107.65	299	5106.64	300	5105.20
301	5103.76	302	5100.32	303	5097.06	304	5093.02	305	5095.35
306	5094.91	307	5095.02	308	5095.15	309	5104.05	310	5108.10
311	5097.55	312	5098.78	313	5094.76	314	5094.89	315	5095.11
316	5095.72	317	5095.56	318	5095.91	319	5088.75	320	5092.32
321	5096.67	322	5097.14	323	5083.17	324	5086.65	325	5098.90
326	5099.99	327	5099.92	328	5100.94	329	5101.83	330	5102.62
331	5092.66	332	5092.05	333	5092.61	334	5090.42	335	5090.60
336	5105.57	337	5106.02	338	5107.34	339	5107.08	340	5107.64
341	5106.58	342	5104.06	343	5100.99	344	5099.63	345	5099.52
346	5100.68	347	5102.24	348	5111.36	349	5110.72	350	5110.10
351	5107.68	352	5107.90	353	5106.11	354	5103.64	355	5099.13
356	5095.32	357	5094.72	358	5094.99	359	5095.79	360	5094.64
361	5108.01	362	5110.94	363	5100.04	364	5102.52	365	5095.86
366	5098.03	367	5098.06	368	5098.07	369	5098.58	370	5098.21
371	5098.69	372	5098.72	373	5099.24	374	5098.97	375	5086.93
376	5100.74	377	5101.66	378	5101.78	379	5101.86	380	5102.98
381	5102.91	382	5092.73	383	5094.08	384	5093.35	385	5091.79
386	5103.75	387	5106.49	388	5107.07	389	5107.33	390	5107.31
391	5108.57	392	5107.36	393	5104.15	394	5100.69	395	5099.34
396	5099.59	397	5101.13	398	5102.40	399	5109.13	400	5115.31
401	5114.62	402	5114.04	403	5112.88	404	5111.33	405	5108.93
406	5106.36	407	5102.09	408	5101.86	409	5102.38	410	5101.76
411	5101.82	412	5101.72	413	5112.42	414	5112.57	415	5112.88
416	5101.36	417	5100.58	418	5101.34	419	5101.29	420	5101.17
421	5101.15	422	5101.29	423	5101.15	424	5101.73	425	5101.74
426	5101.68	427	5102.29	428	5092.46	429	5102.96	430	5103.84
431	5104.31	432	5094.09	433	5095.01	434	5094.93	435	5093.44
436	5093.12	437	5106.85	438	5107.48	439	5107.67	440	5107.59
441	5107.77	442	5108.47	443	5107.81	444	5104.40	445	5100.44
446	5099.05	447	5099.66	448	5101.76	449	5100.24	450	5108.01
451	5112.73	452	5118.52	453	5118.96	454	5118.88	455	5117.49
456	5114.63	457	5111.72	458	5107.95	459	5107.63	460	5106.87
461	5106.53	462	5105.98	463	5105.72	464	5105.57	465	5114.41
466	5114.19	467	5114.00	468	5100.89	469	5105.22	470	5105.01
471	5105.09	472	5104.15	473	5104.09	474	5103.66	475	5103.79
476	5104.24	477	5104.21	478	5104.74	479	5105.23	480	5105.14
481	5105.13	482	5105.75	483	5095.46	484	5095.29	485	5094.21
486	5092.95	487	5107.57	488	5108.08	489	5108.66	490	5108.73
491	5108.19	492	5108.19	493	5109.26	494	5108.90	495	5104.53
496	5100.01	497	5098.83	498	5099.92	499	5102.35	500	5101.23
501	5102.88	502	5112.72	503	5116.12	504	5122.62	505	5123.02
506	5122.38	507	5121.96	508	5120.30	509	5114.05	510	5113.23
511	5111.95	512	5112.04	513	5110.47	514	5110.35	515	5108.43
516	5107.79	517	5116.35	518	5115.45	519	5114.85	520	5096.42
521	5109.88	522	5106.74	523	5110.30	524	5107.53	525	5107.88
526	5105.83	527	5106.51	528	5107.31	529	5106.73	530	5107.10
531	5107.32	532	5107.20	533	5107.58	534	5107.12	535	5096.76
536	5094.01	537	5093.98	538	5108.62	539	5108.63	540	5109.54
541	5109.62	542	5109.25	543	5110.53	544	5111.47	545	5109.75
546	5105.37	547	5099.77	548	5098.82	549	5100.14	550	5103.10
551	5114.00	552	5116.04	553	5115.97	554	5114.09	555	5124.48
556	5124.91	557	5125.41	558	5125.40	559	5124.18	560	5122.85
561	5121.56	562	5120.33	563	5118.83	564	5118.14	565	5117.01

566	5115.64	567	5114.05	568	5113.20	569	5117.98	570	5116.17
571	5115.66	572	5103.84	573	5112.08	574	5115.33	575	5113.96
576	5113.70	577	5112.13	578	5110.05	579	5108.53	580	5109.29
581	5109.43	582	5109.48	583	5109.15	584	5109.15	585	5108.39
586	5108.70	587	5095.57	588	5095.20	589	5109.37	590	5109.96
591	5110.47	592	5110.85	593	5110.14	594	5112.60	595	5112.67
596	5111.20	597	5106.07	598	5099.54	599	5099.05	600	5101.08
601	5103.85	602	5107.00	603	5108.09	604	5115.62	605	5124.84
606	5126.26	607	5127.22	608	5127.59	609	5128.49	610	5128.28
611	5126.93	612	5126.48	613	5126.74	614	5126.94	615	5126.46
616	5125.68	617	5122.72	618	5121.53	619	5119.29	620	5118.72
621	5118.64	622	5117.50	623	5108.00	624	5103.40	625	5117.99
626	5121.12	627	5120.62	628	5120.04	629	5115.73	630	5114.63
631	5114.18	632	5114.18	633	5113.49	634	5113.37	635	5112.38
636	5110.79	637	5110.26	638	5110.08	639	5099.06	640	5110.56
641	5111.59	642	5111.33	643	5112.22	644	5113.87	645	5114.15
646	5113.96	647	5112.19	648	5106.19	649	5099.75	650	5099.31
651	5101.80	652	5105.10	653	5105.75	654	5106.15	655	5110.00
656	5120.77	657	5129.62	658	5130.74	659	5131.70	660	5133.03
661	5134.94	662	5132.48	663	5132.13	664	5130.51	665	5131.21
666	5130.11	667	5130.40	668	5130.46	669	5129.87	670	5130.12
671	5129.31	672	5128.72	673	5122.54	674	5118.00	675	5110.00
676	5102.51	677	5128.00	678	5127.13	679	5126.20	680	5123.13
681	5119.88	682	5118.15	683	5118.72	684	5116.60	685	5114.90
686	5115.13	687	5114.90	688	5112.04	689	5112.89	690	5101.90
691	5112.34	692	5112.77	693	5112.72	694	5113.26	695	5114.80
696	5115.68	697	5115.13	698	5113.20	699	5106.36	700	5100.04
701	5099.76	702	5102.69	703	5105.72	704	5119.50	705	5107.40
706	5115.00	707	5117.13	708	5131.55	709	5132.76	710	5134.63
711	5137.55	712	5138.90	713	5139.07	714	5139.71	715	5138.59
716	5136.39	717	5135.72	718	5134.00	719	5133.11	720	5132.90
721	5132.56	722	5131.78	723	5131.95	724	5130.82	725	5126.31
726	5117.00	727	5119.00	728	5103.00	729	5130.65	730	5130.08
731	5128.75	732	5127.53	733	5125.03	734	5124.64	735	5119.83
736	5120.50	737	5118.42	738	5121.75	739	5118.80	740	5117.95
741	5105.96	742	5116.51	743	5115.06	744	5115.75	745	5114.91
746	5116.37	747	5116.41	748	5116.75	749	5114.64	750	5106.76
751	5101.19	752	5101.02	753	5103.84	754	5106.73	755	5122.64
756	5114.00	757	5118.00	758	5116.00	759	5119.13	760	5134.63
761	5136.33	762	5138.97	763	5141.94	764	5142.27	765	5141.54
766	5140.92	767	5139.48	768	5137.95	769	5137.56	770	5135.98
771	5134.68	772	5134.03	773	5133.59	774	5133.07	775	5132.63
776	5132.25	777	5128.69	778	5111.00	779	5120.74	780	5116.00
781	5131.84	782	5131.50	783	5130.67	784	5128.92	785	5128.19
786	5125.28	787	5124.35	788	5122.14	789	5124.18	790	5120.71
791	5120.34	792	5109.20	793	5118.75	794	5117.76	795	5117.45
796	5116.34	797	5117.70	798	5118.44	799	5117.86	800	5116.06
801	5109.05	802	5101.27	803	5102.68	804	5105.38	805	5107.40
806	5125.03	807	5107.00	808	5115.00	809	5121.00	810	5119.75
811	5125.34	812	5139.92	813	5140.70	814	5143.47	815	5143.38
816	5143.03	817	5142.61	818	5141.44	819	5139.56	820	5138.60
821	5138.02	822	5136.79	823	5135.68	824	5134.86	825	5134.08
826	5133.94	827	5133.39	828	5132.96	829	5115.00	830	5113.00
831	5128.60	832	5130.64	833	5132.86	834	5132.72	835	5131.82
836	5132.16	837	5130.36	838	5129.82	839	5126.40	840	5127.69
841	5127.51	842	5125.61	843	5125.33	844	5122.89	845	5122.30
846	5120.27	847	5119.67	848	5119.77	849	5119.54	850	5120.23
851	5117.86	852	5109.75	853	5104.14	854	5103.63	855	5106.99
856	5109.07	857	5128.64	858	5123.10	859	5113.00	860	5120.00
861	5118.00	862	5124.71	863	5131.05	864	5144.99	865	5144.25
866	5143.91	867	5143.88	868	5143.67	869	5143.08	870	5141.29
871	5139.66	872	5138.77	873	5138.29	874	5136.98	875	5136.24
876	5135.84	877	5135.20	878	5134.59	879	5134.33	880	5134.04
881	5110.00	882	5120.00	883	5136.74	884	5137.00	885	5133.63
886	5133.40	887	5133.09	888	5132.55	889	5131.76	890	5128.58
891	5127.30	892	5129.45	893	5128.23	894	5127.49	895	5126.15
896	5124.15	897	5123.62	898	5121.70	899	5122.42	900	5122.13
901	5121.51	902	5119.19	903	5112.63	904	5105.94	905	5105.28
906	5108.27	907	5110.30	908	5133.00	909	5129.00	910	5120.00
911	5120.00	912	5115.00	913	5122.50	914	5131.31	915	5141.40
916	5146.33	917	5144.72	918	5144.34	919	5144.25	920	5144.18
921	5142.39	922	5140.92	923	5139.46	924	5138.76	925	5137.94
926	5137.53	927	5136.94	928	5136.35	929	5135.70	930	5135.36
931	5135.09	932	5134.42	933	5113.00	934	5124.08	935	5130.00
936	5138.00	937	5134.37	938	5133.99	939	5133.66	940	5133.00
941	5132.96	942	5132.00	943	5131.51	944	5130.79	945	5129.80
946	5129.30	947	5127.76	948	5126.59	949	5124.92	950	5124.08
951	5124.44	952	5123.30	953	5122.01	954	5115.10	955	5107.09
956	5109.88	957	5110.59	958	5111.56	959	5124.00	960	5136.00
961	5131.00	962	5125.00	963	5126.00	964	5121.00	965	5122.94
966	5128.72	967	5133.21	968	5141.80	969	5146.25	970	5145.54
971	5144.99	972	5144.82	973	5144.16	974	5142.17	975	5140.26
976	5139.02	977	5138.79	978	5138.16	979	5137.84	980	5137.37

981	5137.29	982	5136.72	983	5136.46	984	5135.85	985	5135.62
986	5129.00	987	5129.05	988	5135.18	989	5135.26	990	5134.77
991	5134.31	992	5133.87	993	5133.41	994	5132.53	995	5132.36
996	5131.44	997	5130.81	998	5130.67	999	5129.26	1000	5128.13
1001	5127.13	1002	5126.43	1003	5125.31	1004	5122.48	1005	5118.80
1006	5112.48	1007	5111.13	1008	5112.53	1009	5112.74	1010	5127.00
1011	5130.38	1012	5144.00	1013	5133.00	1014	5130.00	1015	5132.00
1016	5130.00	1017	5127.24	1018	5129.16	1019	5131.44	1020	5136.85
1021	5140.45	1022	5144.47	1023	5146.06	1024	5144.87	1025	5144.79
1026	5143.73	1027	5141.63	1028	5139.56	1029	5139.10	1030	5138.42
1031	5138.67	1032	5138.78	1033	5138.85	1034	5138.03	1035	5137.53
1036	5137.00	1037	5136.59	1038	5136.44	1039	5133.47	1040	5133.62
1041	5135.78	1042	5135.53	1043	5134.96	1044	5134.91	1045	5134.08
1046	5133.63	1047	5133.00	1048	5132.34	1049	5131.77	1050	5131.02
1051	5129.92	1052	5129.19	1053	5128.46	1054	5127.42	1055	5125.64
1056	5121.28	1057	5116.30	1058	5112.49	1059	5114.95	1060	5114.75
1061	5130.00	1062	5135.00	1063	5142.00	1064	5148.00	1065	5141.00
1066	5130.00	1067	5134.00	1068	5136.00	1069	5130.00	1070	5131.41
1071	5130.63	1072	5133.10	1073	5138.91	1074	5139.15	1075	5144.60
1076	5145.50	1077	5145.29	1078	5145.15	1079	5144.10	1080	5141.80
1081	5139.45	1082	5139.88	1083	5139.31	1084	5139.55	1085	5139.80
1086	5139.52	1087	5138.78	1088	5138.45	1089	5137.92	1090	5137.88
1091	5137.18	1092	5147.00	1093	5136.75	1094	5136.07	1095	5135.91
1096	5135.42	1097	5134.52	1098	5134.57	1099	5133.79	1100	5132.97
1101	5132.57	1102	5131.78	1103	5130.99	1104	5129.94	1105	5128.59
1106	5126.82	1107	5123.56	1108	5121.41	1109	5118.30	1110	5116.65
1111	5116.50	1112	5134.00	1113	5138.00	1114	5145.00	1115	5150.00
1116	5138.00	1117	5141.00	1118	5149.00	1119	5147.00	1120	5137.00
1121	5131.00	1122	5137.00	1123	5136.00	1124	5133.01	1125	5132.46
1126	5131.67	1127	5132.79	1128	5135.97	1129	5139.48	1130	5144.49
1131	5145.38	1132	5145.82	1133	5145.07	1134	5143.81	1135	5141.76
1136	5139.77	1137	5140.15	1138	5140.04	1139	5140.96	1140	5140.98
1141	5140.43	1142	5139.77	1143	5138.83	1144	5138.65	1145	5138.36
1146	5137.84	1147	5137.80	1148	5137.31	1149	5137.36	1150	5136.32
1151	5135.60	1152	5134.83	1153	5134.24	1154	5133.33	1155	5132.92
1156	5132.20	1157	5131.13	1158	5130.68	1159	5128.76	1160	5127.39
1161	5123.44	1162	5120.79	1163	5118.77	1164	5117.51	1165	5142.00
1166	5149.00	1167	5153.00	1168	5149.00	1169	5146.00	1170	5150.00
1171	5148.00	1172	5146.00	1173	5132.00	1174	5138.00	1175	5140.77
1176	5136.00	1177	5134.43	1178	5134.33	1179	5132.47	1180	5135.06
1181	5136.77	1182	5139.68	1183	5145.42	1184	5146.69	1185	5145.85
1186	5144.95	1187	5143.88	1188	5141.35	1189	5140.17	1190	5140.56
1191	5141.16	1192	5141.65	1193	5141.54	1194	5141.20	1195	5140.19
1196	5139.76	1197	5139.51	1198	5138.91	1199	5138.64	1200	5138.16
1201	5138.25	1202	5137.70	1203	5137.18	1204	5136.13	1205	5135.77
1206	5134.70	1207	5133.74	1208	5132.44	1209	5131.88	1210	5130.94
1211	5130.15	1212	5128.22	1213	5126.46	1214	5122.92	1215	5121.77
1216	5119.38	1217	5153.00	1218	5155.00	1219	5148.00	1220	5146.00
1221	5157.00	1222	5159.00	1223	5147.00	1224	5143.00	1225	5130.87
1226	5142.19	1227	5141.65	1228	5136.00	1229	5133.81	1230	5134.23
1231	5136.99	1232	5137.56	1233	5135.83	1234	5139.15	1235	5147.10
1236	5146.73	1237	5145.83	1238	5144.83	1239	5143.25	1240	5141.64
1241	5140.61	1242	5141.17	1243	5142.49	1244	5142.65	1245	5142.62
1246	5142.04	1247	5140.95	1248	5140.44	1249	5139.80	1250	5139.62
1251	5139.50	1252	5139.31	1253	5139.28	1254	5138.43	1255	5137.72
1256	5136.52	1257	5136.12	1258	5134.98	1259	5132.91	1260	5132.51
1261	5131.92	1262	5131.28	1263	5130.06	1264	5128.89	1265	5126.50
1266	5123.58	1267	5120.53	1268	5158.00	1269	5149.00	1270	5146.00
1271	5143.00	1272	5163.00	1273	5164.00	1274	5145.00	1275	5138.44
1276	5137.30	1277	5143.36	1278	5144.00	1279	5138.26	1280	5136.81
1281	5138.13	1282	5138.82	1283	5140.69	1284	5136.62	1285	5141.47
1286	5147.67	1287	5146.85	1288	5145.81	1289	5144.67	1290	5143.08
1291	5142.16	1292	5142.11	1293	5142.60	1294	5143.03	1295	5143.39
1296	5143.44	1297	5142.66	1298	5142.06	1299	5141.17	1300	5140.40
1301	5140.10	1302	5139.98	1303	5139.96	1304	5139.57	1305	5139.55
1306	5138.52	1307	5137.43	1308	5136.10	1309	5133.14	1310	5132.81
1311	5132.39	1312	5131.65	1313	5130.88	1314	5129.82	1315	5128.39
1316	5124.12	1317	5121.42	1318	5160.00	1319	5149.00	1320	5146.00
1321	5142.00	1322	5162.00	1323	5175.00	1324	5146.00	1325	5133.84
1326	5142.22	1327	5144.63	1328	5143.00	1329	5139.71	1330	5136.22
1331	5133.73	1332	5137.48	1333	5139.15	1334	5139.36	1335	5144.31
1336	5147.76	1337	5146.85	1338	5145.77	1339	5144.60	1340	5143.90
1341	5142.57	1342	5143.38	1343	5143.71	1344	5143.85	1345	5143.99
1346	5143.79	1347	5143.13	1348	5142.47	1349	5141.66	1350	5141.05
1351	5140.57	1352	5140.38	1353	5140.19	1354	5139.93	1355	5139.74
1356	5139.32	1357	5137.25	1358	5133.79	1359	5133.43	1360	5132.98
1361	5132.36	1362	5131.47	1363	5131.47	1364	5129.79	1365	5125.58
1366	5122.55	1367	5153.00	1368	5152.00	1369	5147.00	1370	5147.00
1371	5156.00	1372	5167.00	1373	5177.00	1374	5141.31	1375	5135.35
1376	5146.04	1377	5145.57	1378	5145.49	1379	5141.77	1380	5135.49
1381	5133.26	1382	5138.28	1383	5135.23	1384	5140.40	1385	5143.27
1386	5148.21	1387	5146.85	1388	5145.51	1389	5144.50	1390	5143.85
1391	5143.70	1392	5143.94	1393	5144.13	1394	5144.38	1395	5144.49

1396	5144.18	1397	5143.58	1398	5142.36	1399	5141.62	1400	5141.18
1401	5140.83	1402	5140.59	1403	5140.35	1404	5140.10	1405	5139.78
1406	5138.77	1407	5135.15	1408	5133.86	1409	5133.56	1410	5132.57
1411	5131.72	1412	5131.69	1413	5130.06	1414	5126.84	1415	5123.22
1416	5153.00	1417	5152.00	1418	5149.00	1419	5151.00	1420	5156.00
1421	5164.00	1422	5171.00	1423	5182.00	1424	5136.85	1425	5139.95
1426	5148.09	1427	5147.00	1428	5146.71	1429	5142.33	1430	5135.70
1431	5134.44	1432	5139.11	1433	5140.55	1434	5141.51	1435	5142.38
1436	5148.21	1437	5147.08	1438	5145.82	1439	5144.69	1440	5144.16
1441	5144.41	1442	5144.32	1443	5144.36	1444	5144.47	1445	5144.58
1446	5144.46	1447	5143.57	1448	5142.67	1449	5141.76	1450	5141.18
1451	5140.81	1452	5140.61	1453	5140.46	1454	5140.20	1455	5139.78
1456	5135.63	1457	5134.41	1458	5133.95	1459	5133.06	1460	5132.01
1461	5131.68	1462	5130.16	1463	5127.04	1464	5123.92	1465	5155.00
1466	5158.00	1467	5153.00	1468	5154.00	1469	5145.60	1470	5163.00
1471	5169.00	1472	5175.00	1473	5174.00	1474	5138.18	1475	5144.55
1476	5149.00	1477	5149.96	1478	5148.25	1479	5143.07	1480	5135.49
1481	5135.70	1482	5140.96	1483	5142.28	1484	5141.31	1485	5140.43
1486	5148.28	1487	5146.75	1488	5145.72	1489	5144.90	1490	5144.52
1491	5144.45	1492	5144.43	1493	5144.45	1494	5144.55	1495	5144.58
1496	5144.29	1497	5143.53	1498	5142.32	1499	5141.57	1500	5141.13
1501	5140.65	1502	5140.41	1503	5140.16	1504	5139.54	1505	5136.69
1506	5134.92	1507	5134.36	1508	5133.31	1509	5132.12	1510	5131.61
1511	5130.31	1512	5127.94	1513	5124.31	1514	5156.00	1515	5156.00
1516	5159.00	1517	5159.62	1518	5160.00	1519	5141.47	1520	5166.00
1521	5170.00	1522	5166.00	1523	5185.00	1524	5138.83	1525	5147.00
1526	5149.52	1527	5150.35	1528	5147.98	1529	5143.86	1530	5136.96
1531	5137.70	1532	5143.65	1533	5142.03	1534	5141.08	1535	5140.26
1536	5148.24	1537	5146.85	1538	5145.66	1539	5144.92	1540	5144.57
1541	5144.41	1542	5144.37	1543	5144.43	1544	5144.56	1545	5144.63
1546	5144.17	1547	5143.27	1548	5142.30	1549	5141.42	1550	5140.78
1551	5139.49	1552	5139.26	1553	5139.18	1554	5137.25	1555	5134.99
1556	5134.58	1557	5133.74	1558	5132.49	1559	5131.66	1560	5130.43
1561	5128.38	1562	5125.30	1563	5156.00	1564	5156.00	1565	5157.00
1566	5164.00	1567	5158.00	1568	5155.77	1569	5138.57	1570	5165.00
1571	5167.00	1572	5182.00	1573	5179.00	1574	5147.35	1575	5145.00
1576	5149.87	1577	5151.22	1578	5151.11	1579	5148.32	1580	5143.35
1581	5137.94	1582	5139.63	1583	5143.01	1584	5141.67	1585	5140.72
1586	5149.14	1587	5147.79	1588	5146.62	1589	5145.58	1590	5144.86
1591	5144.52	1592	5144.35	1593	5144.25	1594	5144.40	1595	5144.54
1596	5144.44	1597	5143.95	1598	5143.08	1599	5142.14	1600	5141.29
1601	5139.92	1602	5139.02	1603	5138.70	1604	5137.21	1605	5135.13
1606	5134.58	1607	5133.99	1608	5132.55	1609	5131.82	1610	5130.64
1611	5128.52	1612	5126.11	1613	5165.54	1614	5157.00	1615	5159.00
1616	5165.00	1617	5163.00	1618	5161.00	1619	5140.19	1620	5164.00
1621	5182.00	1622	5177.00	1623	5179.00	1624	5159.80	1625	5141.92
1626	5154.85	1627	5155.31	1628	5151.87	1629	5151.69	1630	5150.45
1631	5147.33	1632	5143.78	1633	5138.65	1634	5144.54	1635	5142.71
1636	5141.27	1637	5140.48	1638	5149.09	1639	5147.62	1640	5146.46
1641	5145.44	1642	5144.71	1643	5144.41	1644	5144.20	1645	5144.12
1646	5144.41	1647	5144.47	1648	5144.10	1649	5143.35	1650	5142.87
1651	5141.58	1652	5140.29	1653	5139.07	1654	5138.70	1655	5137.18
1656	5135.09	1657	5134.47	1658	5134.22	1659	5132.97	1660	5131.90
1661	5130.88	1662	5129.65	1663	5126.51	1664	5161.00	1665	5170.53
1666	5161.00	1667	5165.00	1668	5163.00	1669	5163.00	1670	5163.00
1671	5152.00	1672	5177.00	1673	5174.00	1674	5176.00	1675	5176.00
1676	5159.00	1677	5144.87	1678	5150.15	1679	5154.00	1680	5156.23
1681	5150.68	1682	5151.26	1683	5150.41	1684	5136.45	1685	5143.21
1686	5141.17	1687	5143.96	1688	5142.06	1689	5140.89	1690	5150.16
1691	5148.56	1692	5147.27	1693	5145.94	1694	5144.96	1695	5144.50
1696	5144.22	1697	5143.87	1698	5143.99	1699	5144.31	1700	5143.99
1701	5143.19	1702	5142.63	1703	5141.85	1704	5140.85	1705	5139.18
1706	5138.56	1707	5136.83	1708	5134.89	1709	5134.26	1710	5134.08
1711	5133.13	1712	5132.20	1713	5131.13	1714	5130.10	1715	5127.50
1716	5158.00	1717	5160.00	1718	5165.00	1719	5163.00	1720	5163.00
1721	5177.00	1722	5163.14	1723	5157.46	1724	5171.00	1725	5177.00
1726	5177.00	1727	5173.00	1728	5154.00	1729	5154.00	1730	5156.00
1731	5160.00	1732	5157.00	1733	5154.00	1734	5156.00	1735	5154.94
1736	5151.33	1737	5151.29	1738	5148.37	1739	5146.61	1740	5142.60
1741	5145.65	1742	5143.53	1743	5141.60	1744	5151.11	1745	5149.65
1746	5148.13	1747	5146.73	1748	5145.48	1749	5144.60	1750	5144.32
1751	5143.85	1752	5143.17	1753	5143.21	1754	5143.29	1755	5143.14
1756	5142.39	1757	5141.98	1758	5140.95	1759	5139.88	1760	5138.87
1761	5136.75	1762	5134.60	1763	5133.98	1764	5134.07	1765	5133.37
1766	5132.47	1767	5131.62	1768	5130.21	1769	5128.34	1770	5158.00
1771	5163.72	1772	5163.00	1773	5160.00	1774	5173.00	1775	5170.00
1776	5156.86	1777	5181.00	1778	5177.00	1779	5171.00	1780	5177.00
1781	5154.62	1782	5154.00	1783	5159.00	1784	5153.00	1785	5157.63
1786	5182.00	1787	5183.00	1788	5183.00	1789	5182.00	1790	5181.00
1791	5181.00	1792	5166.52	1793	5152.40	1794	5153.29	1795	5150.03
1796	5147.42	1797	5141.96	1798	5142.93	1799	5145.24	1800	5149.38
1801	5151.23	1802	5150.96	1803	5148.99	1804	5147.32	1805	5145.87
1806	5144.73	1807	5144.36	1808	5143.90	1809	5143.10	1810	5142.36

1811	5142.48	1812	5142.85	1813	5142.40	1814	5141.80	1815	5140.57
1816	5139.47	1817	5139.26	1818	5135.63	1819	5134.18	1820	5133.62
1821	5133.99	1822	5133.63	1823	5132.76	1824	5131.72	1825	5130.93
1826	5128.95	1827	5161.00	1828	5161.00	1829	5159.00	1830	5168.00
1831	5172.00	1832	5181.00	1833	5154.50	1834	5177.00	1835	5173.00
1836	5177.00	1837	5151.82	1838	5153.00	1839	5159.00	1840	5154.00
1841	5153.78	1842	5182.00	1843	5186.00	1844	5185.00	1845	5184.00
1846	5185.00	1847	5185.00	1848	5157.00	1849	5153.39	1850	5152.00
1851	5148.86	1852	5146.85	1853	5146.27	1854	5146.70	1855	5144.55
1856	5149.91	1857	5151.01	1858	5149.65	1859	5147.58	1860	5146.61
1861	5145.29	1862	5144.46	1863	5144.14	1864	5143.38	1865	5141.67
1866	5141.27	1867	5142.18	1868	5142.60	1869	5141.11	1870	5139.45
1871	5138.36	1872	5138.88	1873	5134.07	1874	5133.86	1875	5133.44
1876	5133.86	1877	5133.77	1878	5133.07	1879	5132.06	1880	5131.33
1881	5129.73	1882	5158.00	1883	5162.00	1884	5160.00	1885	5168.00
1886	5173.00	1887	5178.00	1888	5178.00	1889	5153.01	1890	5176.00
1891	5178.00	1892	5178.09	1893	5153.00	1894	5159.00	1895	5153.00
1896	5152.00	1897	5182.00	1898	5187.00	1899	5187.00	1900	5188.00
1901	5190.00	1902	5191.00	1903	5153.00	1904	5153.10	1905	5151.69
1906	5148.19	1907	5145.35	1908	5143.57	1909	5146.24	1910	5148.68
1911	5150.31	1912	5150.68	1913	5148.73	1914	5147.38	1915	5145.99
1916	5144.53	1917	5144.14	1918	5143.64	1919	5141.85	1920	5139.41
1921	5140.57	1922	5141.94	1923	5141.48	1924	5139.76	1925	5140.40
1926	5136.59	1927	5132.93	1928	5133.31	1929	5133.15	1930	5133.72
1931	5133.94	1932	5133.21	1933	5132.49	1934	5131.47	1935	5130.26
1936	5158.00	1937	5162.00	1938	5161.00	1939	5168.00	1940	5173.00
1941	5178.00	1942	5180.00	1943	5179.00	1944	5153.22	1945	5178.00
1946	5152.40	1947	5154.00	1948	5160.00	1949	5155.00	1950	5153.00
1951	5183.00	1952	5188.00	1953	5189.00	1954	5191.00	1955	5194.00
1956	5194.00	1957	5151.00	1958	5130.75	1959	5130.94	1960	5153.27
1961	5152.02	1962	5148.55	1963	5145.97	1964	5144.35	1965	5147.06
1966	5148.77	1967	5150.31	1968	5151.12	1969	5149.05	1970	5147.33
1971	5145.82	1972	5144.52	1973	5143.90	1974	5143.91	1975	5141.63
1976	5139.28	1977	5140.01	1978	5140.98	1979	5140.90	1980	5139.30
1981	5140.20	1982	5140.30	1983	5131.23	1984	5132.57	1985	5132.92
1986	5133.72	1987	5134.02	1988	5133.69	1989	5132.57	1990	5131.79
1991	5161.00	1992	5151.83	1993	5163.00	1994	5167.00	1995	5170.00
1996	5178.00	1997	5182.00	1998	5182.00	1999	5179.00	2000	5153.51
2001	5153.07	2002	5154.00	2003	5162.00	2004	5158.00	2005	5153.00
2006	5184.00	2007	5189.00	2008	5191.00	2009	5194.00	2010	5197.00
2011	5197.00	2012	5152.00	2013	5131.93	2014	5131.00	2015	5131.54
2016	5131.28	2017	5153.49	2018	5152.36	2019	5149.09	2020	5146.57
2021	5145.09	2022	5147.08	2023	5145.26	2024	5150.48	2025	5150.62
2026	5149.17	2027	5147.63	2028	5146.12	2029	5144.92	2030	5144.07
2031	5143.68	2032	5142.08	2033	5139.43	2034	5138.34	2035	5140.13
2036	5140.93	2037	5139.60	2038	5140.10	2039	5140.20	2040	5129.51
2041	5131.76	2042	5132.82	2043	5133.74	2044	5134.09	2045	5133.82
2046	5133.00	2047	5162.00	2048	5163.00	2049	5161.00	2050	5163.00
2051	5168.00	2052	5178.00	2053	5183.00	2054	5183.00	2055	5181.00
2056	5153.80	2057	5153.72	2058	5155.00	2059	5163.00	2060	5158.00
2061	5153.00	2062	5186.00	2063	5190.00	2064	5193.00	2065	5196.00
2066	5200.00	2067	5200.00	2068	5161.00	2069	5133.24	2070	5132.09
2071	5133.33	2072	5131.50	2073	5131.72	2074	5131.14	2075	5153.72
2076	5152.72	2077	5149.64	2078	5147.15	2079	5145.76	2080	5147.75
2081	5145.76	2082	5150.49	2083	5150.66	2084	5148.90	2085	5147.73
2086	5146.27	2087	5144.87	2088	5144.06	2089	5142.47	2090	5140.75
2091	5139.86	2092	5138.50	2093	5139.21	2094	5140.27	2095	5140.71
2096	5139.12	2097	5140.00	2098	5128.13	2099	5131.30	2100	5132.79
2101	5133.76	2102	5134.11	2103	5134.00	2104	5164.00	2105	5162.00
2106	5164.00	2107	5165.00	2108	5169.00	2109	5177.00	2110	5183.00
2111	5185.00	2112	5184.02	2113	5154.27	2114	5154.33	2115	5156.00
2116	5164.00	2117	5157.00	2118	5152.00	2119	5188.94	2120	5192.00
2121	5197.00	2122	5201.00	2123	5203.00	2124	5203.00	2125	5165.00
2126	5134.09	2127	5133.52	2128	5134.13	2129	5132.23	2130	5133.64
2131	5130.94	2132	5132.24	2133	5151.00	2134	5164.00	2135	5150.00
2136	5163.00	2137	5151.00	2138	5161.00	2139	5152.00	2140	5159.00
2141	5156.00	2142	5153.97	2143	5153.08	2144	5150.15	2145	5147.72
2146	5146.38	2147	5148.13	2148	5146.71	2149	5150.83	2150	5150.53
2151	5148.83	2152	5147.28	2153	5146.13	2154	5145.18	2155	5144.47
2156	5141.77	2157	5140.45	2158	5140.58	2159	5138.61	2160	5138.45
2161	5139.34	2162	5140.26	2163	5138.56	2164	5136.78	2165	5130.24
2166	5130.60	2167	5133.01	2168	5133.82	2169	5134.08	2170	5165.00
2171	5165.00	2172	5170.00	2173	5173.00	2174	5174.00	2175	5178.00
2176	5184.00	2177	5188.00	2178	5188.00	2179	5154.66	2180	5154.96
2181	5157.00	2182	5164.00	2183	5157.00	2184	5192.01	2185	5195.00
2186	5200.00	2187	5204.00	2188	5205.00	2189	5207.00	2190	5169.00
2191	5169.00	2192	5134.00	2193	5134.14	2194	5133.86	2195	5133.71
2196	5134.12	2197	5130.50	2198	5131.60	2199	5133.68	2200	5158.00
2201	5168.00	2202	5160.00	2203	5167.00	2204	5161.00	2205	5166.00
2206	5163.00	2207	5165.00	2208	5130.39	2209	5154.00	2210	5153.00
2211	5150.65	2212	5148.23	2213	5146.97	2214	5148.20	2215	5147.10
2216	5151.70	2217	5150.01	2218	5148.91	2219	5147.37	2220	5146.00
2221	5145.04	2222	5144.69	2223	5141.88	2224	5139.49	2225	5139.80

2226	5139.48	2227	5138.43	2228	5138.56	2229	5140.03	2230	5139.04
2231	5138.86	2232	5131.98	2233	5130.11	2234	5133.19	2235	5133.76
2236	5169.00	2237	5174.00	2238	5170.00	2239	5177.00	2240	5179.00
2241	5181.00	2242	5185.00	2243	5189.00	2244	5190.00	2245	5155.05
2246	5151.59	2247	5158.00	2248	5159.03	2249	5193.00	2250	5197.06
2251	5203.00	2252	5206.00	2253	5207.00	2254	5211.00	2255	5168.00
2256	5168.00	2257	5168.00	2258	5133.71	2259	5133.69	2260	5133.71
2261	5134.13	2262	5133.57	2263	5132.20	2264	5133.78	2265	5134.03
2266	5160.80	2267	5168.00	2268	5160.80	2269	5167.00	2270	5160.90
2271	5161.50	2272	5161.08	2273	5130.05	2274	5132.15	2275	5156.00
2276	5152.86	2277	5151.17	2278	5148.76	2279	5147.57	2280	5148.71
2281	5147.67	2282	5151.78	2283	5149.74	2284	5148.38	2285	5146.99
2286	5145.78	2287	5144.89	2288	5144.43	2289	5141.92	2290	5139.36
2291	5139.24	2292	5139.71	2293	5137.75	2294	5137.79	2295	5139.66
2296	5139.50	2297	5138.54	2298	5133.24	2299	5129.62	2300	5133.34
2301	5173.00	2302	5177.00	2303	5179.00	2304	5171.00	2305	5181.00
2306	5183.00	2307	5187.00	2308	5191.00	2309	5192.00	2310	5155.45
2311	5156.19	2312	5158.00	2313	5194.00	2314	5198.00	2315	5203.00
2316	5206.00	2317	5208.00	2318	5213.00	2319	5166.00	2320	5166.00
2321	5165.00	2322	5166.00	2323	5132.73	2324	5133.59	2325	5132.57
2326	5133.52	2327	5134.54	2328	5133.77	2329	5134.01	2330	5133.54
2331	5159.00	2332	5164.00	2333	5160.00	2334	5163.00	2335	5161.00
2336	5162.00	2337	5129.34	2338	5130.98	2339	5133.70	2340	5129.23
2341	5154.83	2342	5153.27	2343	5152.00	2344	5149.31	2345	5148.21
2346	5148.98	2347	5148.10	2348	5150.90	2349	5149.85	2350	5148.42
2351	5146.80	2352	5145.38	2353	5144.65	2354	5142.77	2355	5141.33
2356	5140.37	2357	5138.65	2358	5138.76	2359	5138.77	2360	5137.99
2361	5139.08	2362	5139.50	2363	5137.96	2364	5132.25	2365	5128.95
2366	5175.00	2367	5178.00	2368	5182.00	2369	5184.00	2370	5171.00
2371	5185.00	2372	5189.00	2373	5194.00	2374	5195.00	2375	5155.87
2376	5156.78	2377	5197.00	2378	5198.00	2379	5202.00	2380	5206.00
2381	5212.00	2382	5217.91	2383	5165.00	2384	5165.00	2385	5164.00
2386	5163.00	2387	5166.00	2388	5128.60	2389	5133.25	2390	5128.14
2391	5135.21	2392	5134.31	2393	5133.97	2394	5136.57	2395	5137.34
2396	5157.41	2397	5162.00	2398	5158.04	2399	5161.00	2400	5159.00
2401	5131.97	2402	5133.80	2403	5133.91	2404	5128.22	2405	5131.71
2406	5160.00	2407	5152.74	2408	5152.19	2409	5149.87	2410	5149.94
2411	5149.61	2412	5148.38	2413	5147.20	2414	5145.58	2415	5148.14
2416	5146.65	2417	5145.17	2418	5143.97	2419	5142.69	2420	5141.40
2421	5140.46	2422	5139.01	2423	5138.08	2424	5138.45	2425	5138.08
2426	5137.95	2427	5138.68	2428	5136.36	2429	5130.23	2430	5177.00
2431	5181.00	2432	5185.00	2433	5187.00	2434	5188.00	2435	5174.00
2436	5191.00	2437	5195.00	2438	5197.00	2439	5157.00	2440	5197.00
2441	5197.00	2442	5201.00	2443	5207.00	2444	5209.22	2445	5210.00
2446	5166.00	2447	5165.00	2448	5165.00	2449	5164.00	2450	5164.00
2451	5166.00	2452	5128.66	2453	5127.90	2454	5134.80	2455	5134.91
2456	5138.29	2457	5159.00	2458	5163.00	2459	5160.00	2460	5162.00
2461	5133.70	2462	5134.12	2463	5135.63	2464	5127.90	2465	5129.07
2466	5133.58	2467	5155.57	2468	5154.27	2469	5152.80	2470	5150.00
2471	5150.71	2472	5150.20	2473	5148.85	2474	5147.90	2475	5146.44
2476	5144.50	2477	5146.47	2478	5145.11	2479	5143.63	2480	5140.58
2481	5139.65	2482	5140.40	2483	5140.09	2484	5138.96	2485	5137.82
2486	5137.33	2487	5137.69	2488	5138.28	2489	5131.96	2490	5179.49
2491	5181.00	2492	5187.00	2493	5190.00	2494	5192.00	2495	5193.00
2496	5174.46	2497	5195.00	2498	5197.00	2499	5197.00	2500	5197.00
2501	5202.00	2502	5205.78	2503	5206.71	2504	5204.68	2505	5166.00
2506	5164.46	2507	5162.81	2508	5161.51	2509	5160.26	2510	5159.04
2511	5165.00	2512	5128.05	2513	5127.37	2514	5135.10	2515	5138.99
2516	5156.02	2517	5158.00	2518	5155.99	2519	5133.85	2520	5136.38
2521	5127.22	2522	5131.36	2523	5133.43	2524	5133.46	2525	5126.66
2526	5154.82	2527	5153.43	2528	5152.00	2529	5151.59	2530	5152.75
2531	5151.28	2532	5150.15	2533	5149.18	2534	5148.06	2535	5146.47
2536	5144.69	2537	5143.19	2538	5141.62	2539	5139.21	2540	5139.56
2541	5140.36	2542	5140.32	2543	5137.86	2544	5137.05	2545	5136.25
2546	5136.17	2547	5135.82	2548	5179.03	2549	5181.42	2550	5187.00
2551	5192.00	2552	5194.00	2553	5195.00	2554	5196.00	2555	5168.99
2556	5197.00	2557	5197.00	2558	5200.00	2559	5202.95	2560	5203.65
2561	5204.82	2562	5200.70	2563	5164.00	2564	5163.43	2565	5162.12
2566	5160.86	2567	5159.71	2568	5158.60	2569	5157.51	2570	5128.06
2571	5126.33	2572	5133.17	2573	5139.24	2574	5155.65	2575	5156.58
2576	5136.71	2577	5130.79	2578	5132.99	2579	5133.31	2580	5126.17
2581	5128.04	2582	5125.34	2583	5125.22	2584	5154.17	2585	5153.00
2586	5152.51	2587	5153.21	2588	5151.44	2589	5149.94	2590	5149.15
2591	5148.27	2592	5146.88	2593	5144.83	2594	5143.08	2595	5141.57
2596	5138.96	2597	5138.74	2598	5139.46	2599	5140.50	2600	5139.66
2601	5137.04	2602	5131.90	2603	5132.00	2604	5131.70	2605	5173.18
2606	5179.83	2607	5185.00	2608	5192.00	2609	5195.00	2610	5196.00
2611	5196.00	2612	5197.00	2613	5163.00	2614	5199.00	2615	5204.00
2616	5202.80	2617	5203.35	2618	5203.86	2619	5200.84	2620	5162.00
2621	5162.00	2622	5160.86	2623	5159.58	2624	5158.32	2625	5157.12
2626	5155.94	2627	5128.68	2628	5124.62	2629	5132.74	2630	5138.18
2631	5155.05	2632	5137.06	2633	5132.77	2634	5133.09	2635	5130.37
2636	5131.85	2637	5127.21	2638	5125.35	2639	5155.00	2640	5153.60

2641	5154.65	2642	5152.36	2643	5150.33	2644	5148.99	2645	5148.12
2646	5146.74	2647	5144.97	2648	5143.23	2649	5142.03	2650	5139.92
2651	5138.51	2652	5138.61	2653	5140.13	2654	5139.71	2655	5137.33
2656	5132.80	2657	5133.44	2658	5133.15	2659	5170.57	2660	5175.55
2661	5182.58	2662	5190.00	2663	5196.00	2664	5197.00	2665	5196.00
2666	5198.00	2667	5162.00	2668	5201.00	2669	5204.07	2670	5203.00
2671	5202.98	2672	5203.26	2673	5200.58	2674	5160.00	2675	5159.00
2676	5159.00	2677	5159.00	2678	5158.00	2679	5157.00	2680	5156.00
2681	5129.19	2682	5121.20	2683	5130.27	2684	5137.39	2685	5136.65
2686	5133.01	2687	5131.60	2688	5127.72	2689	5125.26	2690	5154.66
2691	5155.49	2692	5153.07	2693	5150.76	2694	5149.00	2695	5148.14
2696	5147.13	2697	5145.41	2698	5143.83	2699	5142.53	2700	5141.04
2701	5139.28	2702	5137.13	2703	5138.48	2704	5139.74	2705	5137.92
2706	5134.19	2707	5133.04	2708	5132.77	2709	5168.58	2710	5176.13
2711	5179.90	2712	5188.00	2713	5195.00	2714	5198.00	2715	5198.00
2716	5198.00	2717	5160.00	2718	5202.00	2719	5205.04	2720	5203.68
2721	5202.84	2722	5202.92	2723	5202.80	2724	5158.00	2725	5156.00
2726	5155.00	2727	5158.64	2728	5157.12	2729	5155.90	2730	5130.31
2731	5120.41	2732	5127.11	2733	5134.94	2734	5135.88	2735	5133.06
2736	5130.53	2737	5129.24	2738	5127.17	2739	5156.83	2740	5154.29
2741	5151.46	2742	5149.13	2743	5148.24	2744	5147.20	2745	5145.79
2746	5144.53	2747	5143.43	2748	5142.07	2749	5140.77	2750	5137.70
2751	5137.78	2752	5138.19	2753	5137.44	2754	5135.33	2755	5133.61
2756	5132.87	2757	5161.16	2758	5179.02	2759	5180.44	2760	5186.00
2761	5194.00	2762	5199.00	2763	5201.00	2764	5201.00	2765	5160.00
2766	5204.00	2767	5206.23	2768	5205.92	2769	5204.19	2770	5202.80
2771	5203.23	2772	5156.00	2773	5154.00	2774	5159.64	2775	5158.52
2776	5157.51	2777	5130.93	2778	5121.82	2779	5122.49	2780	5132.59
2781	5134.32	2782	5133.13	2783	5131.18	2784	5129.03	2785	5129.34
2786	5154.85	2787	5151.75	2788	5149.24	2789	5148.50	2790	5147.80
2791	5146.77	2792	5145.74	2793	5144.52	2794	5143.09	2795	5141.66
2796	5139.29	2797	5136.69	2798	5137.22	2799	5137.13	2800	5136.02
2801	5134.74	2802	5133.49	2803	5159.00	2804	5173.76	2805	5181.49
2806	5184.90	2807	5193.00	2808	5197.00	2809	5201.00	2810	5205.00
2811	5160.00	2812	5205.56	2813	5205.96	2814	5205.72	2815	5211.44
2816	5210.38	2817	5208.98	2818	5159.99	2819	5158.15	2820	5157.27
2821	5156.33	2822	5131.54	2823	5121.37	2824	5122.11	2825	5130.01
2826	5131.98	2827	5132.82	2828	5131.72	2829	5130.29	2830	5129.71
2831	5129.39	2832	5129.45	2833	5153.28	2834	5149.76	2835	5148.44
2836	5148.06	2837	5147.60	2838	5147.03	2839	5146.28	2840	5144.90
2841	5143.23	2842	5141.73	2843	5138.60	2844	5137.36	2845	5137.21
2846	5137.30	2847	5136.73	2848	5134.04	2849	5162.00	2850	5165.91
2851	5180.87	2852	5185.11	2853	5191.00	2854	5195.00	2855	5198.00
2856	5205.00	2857	5161.29	2858	5209.19	2859	5202.33	2860	5210.73
2861	5204.57	2862	5210.26	2863	5209.83	2864	5157.54	2865	5156.39
2866	5153.60	2867	5133.20	2868	5125.29	2869	5118.63	2870	5126.74
2871	5129.30	2872	5130.91	2873	5131.93	2874	5129.46	2875	5129.47
2876	5128.47	2877	5129.87	2878	5129.52	2879	5151.02	2880	5149.83
2881	5149.36	2882	5148.77	2883	5148.30	2884	5148.06	2885	5147.28
2886	5145.87	2887	5143.55	2888	5137.34	2889	5137.08	2890	5136.40
2891	5137.09	2892	5136.96	2893	5136.65	2894	5162.04	2895	5166.00
2896	5178.81	2897	5185.96	2898	5189.00	2899	5190.00	2900	5193.00
2901	5199.00	2902	5160.32	2903	5203.00	2904	5206.00	2905	5207.00
2906	5207.00	2907	5207.00	2908	5205.00	2909	5154.73	2910	5153.47
2911	5135.40	2912	5128.12	2913	5120.45	2914	5118.92	2915	5126.73
2916	5128.65	2917	5130.95	2918	5130.17	2919	5130.00	2920	5130.19
2921	5128.54	2922	5129.39	2923	5126.70	2924	5151.43	2925	5150.46
2926	5150.45	2927	5149.62	2928	5149.84	2929	5148.90	2930	5147.34
2931	5146.04	2932	5143.07	2933	5137.60	2934	5136.49	2935	5136.88
2936	5136.81	2937	5136.72	2938	5161.67	2939	5162.68	2940	5174.70
2941	5183.70	2942	5186.16	2943	5185.00	2944	5186.00	2945	5192.00
2946	5158.65	2947	5194.00	2948	5200.00	2949	5197.00	2950	5201.00
2951	5201.00	2952	5201.00	2953	5153.86	2954	5137.80	2955	5131.40
2956	5123.24	2957	5120.27	2958	5120.27	2959	5126.74	2960	5123.08
2961	5128.93	2962	5118.35	2963	5128.49	2964	5127.33	2965	5124.87
2966	5126.97	2967	5123.67	2968	5122.82	2969	5152.72	2970	5152.12
2971	5151.92	2972	5152.20	2973	5152.00	2974	5150.48	2975	5148.38
2976	5145.40	2977	5139.39	2978	5136.90	2979	5136.67	2980	5136.83
2981	5136.70	2982	5160.93	2983	5162.53	2984	5163.68	2985	5175.57
2986	5178.46	2987	5179.46	2988	5180.00	2989	5185.00	2990	5157.02
2991	5187.00	2992	5193.00	2993	5196.00	2994	5190.00	2995	5199.00
2996	5200.00	2997	5138.77	2998	5135.74	2999	5125.45	3000	5124.57
3001	5125.22	3002	5127.86	3003	5117.64	3004	5128.61	3005	5124.59
3006	5116.50	3007	5125.48	3008	5121.24	3009	5123.94	3010	5122.45
3011	5123.45	3012	5156.50	3013	5155.27	3014	5154.62	3015	5154.15
3016	5153.27	3017	5152.39	3018	5150.89	3019	5148.14	3020	5141.02
3021	5138.29	3022	5136.88	3023	5136.48	3024	5136.78	3025	5160.06
3026	5162.18	3027	5163.11	3028	5164.68	3029	5170.34	3030	5172.21
3031	5174.92	3032	5178.00	3033	5185.00	3034	5181.00	3035	5187.00
3036	5191.00	3037	5197.00	3038	5198.93	3039	5137.87	3040	5137.05
3041	5127.58	3042	5129.43	3043	5129.35	3044	5125.02	3045	5127.86
3046	5115.84	3047	5120.11	3048	5119.61	3049	5115.97	3050	5118.69
3051	5122.22	3052	5117.57	3053	5159.39	3054	5158.86	3055	5158.43

3056	5157.29	3057	5155.33	3058	5153.15	3059	5151.80	3060	5150.46
3061	5146.23	3062	5139.67	3063	5137.02	3064	5137.09	3065	5136.87
3066	5161.71	3067	5162.70	3068	5164.04	3069	5165.50	3070	5169.21
3071	5170.05	3072	5174.96	3073	5182.00	3074	5184.00	3075	5178.04
3076	5187.00	3077	5194.00	3078	5199.00	3079	5133.64	3080	5135.31
3081	5128.85	3082	5129.32	3083	5124.19	3084	5128.21	3085	5117.30
3086	5119.16	3087	5117.25	3088	5119.00	3089	5117.62	3090	5116.92
3091	5120.62	3092	5161.07	3093	5160.38	3094	5160.09	3095	5159.92
3096	5157.78	3097	5154.40	3098	5152.26	3099	5151.05	3100	5148.38
3101	5142.04	3102	5138.40	3103	5137.37	3104	5138.11	3105	5162.11
3106	5163.49	3107	5164.87	3108	5166.21	3109	5169.33	3110	5170.76
3111	5183.00	3112	5176.00	3113	5185.00	3114	5172.76	3115	5192.00
3116	5196.93	3117	5129.83	3118	5131.85	3119	5129.07	3120	5125.76
3121	5126.57	3122	5116.75	3123	5120.05	3124	5123.38	3125	5117.37
3126	5126.85	3127	5121.96	3128	5128.55	3129	5161.95	3130	5161.46
3131	5161.19	3132	5160.55	3133	5159.14	3134	5155.92	3135	5153.08
3136	5150.74	3137	5148.39	3138	5143.61	3139	5139.76	3140	5137.64
3141	5137.66	3142	5162.94	3143	5164.16	3144	5165.47	3145	5162.01
3146	5171.27	3147	5182.00	3148	5178.00	3149	5169.00	3150	5188.00
3151	5174.79	3152	5194.00	3153	5129.53	3154	5129.53	3155	5126.16
3156	5130.64	3157	5117.74	3158	5119.14	3159	5121.83	3160	5117.63
3161	5125.28	3162	5129.08	3163	5129.40	3164	5162.33	3165	5161.83
3166	5161.66	3167	5161.43	3168	5159.78	3169	5155.90	3170	5153.26
3171	5151.04	3172	5148.90	3173	5146.40	3174	5143.56	3175	5137.74
3176	5137.53	3177	5163.37	3178	5164.86	3179	5166.00	3180	5163.32
3181	5167.06	3182	5167.12	3183	5167.09	3184	5167.08	3185	5167.08
3186	5179.33	3187	5138.35	3188	5129.66	3189	5139.55	3190	5117.87
3191	5128.97	3192	5120.59	3193	5117.51	3194	5122.43	3195	5132.49
3196	5129.30	3197	5162.57	3198	5161.93	3199	5161.60	3200	5161.09
3201	5159.40	3202	5156.13	3203	5152.90	3204	5150.64	3205	5148.63
3206	5146.20	3207	5143.43	3208	5140.72	3209	5163.93	3210	5165.16
3211	5166.27	3212	5166.49	3213	5166.52	3214	5175.04	3215	5166.49
3216	5166.50	3217	5166.45	3218	5143.13	3219	5139.83	3220	5143.11
3221	5125.77	3222	5139.83	3223	5120.29	3224	5125.23	3225	5122.69
3226	5134.95	3227	5128.78	3228	5162.95	3229	5162.13	3230	5161.58
3231	5161.11	3232	5159.57	3233	5156.75	3234	5153.71	3235	5151.46
3236	5149.54	3237	5147.17	3238	5144.36	3239	5164.26	3240	5165.32
3241	5165.56	3242	5165.56	3243	5165.30	3244	5171.13	3245	5165.26
3246	5165.34	3247	5145.47	3248	5143.58	3249	5145.87	3250	5138.79
3251	5144.31	3252	5128.35	3253	5139.77	3254	5132.39	3255	5134.43
3256	5138.48	3257	5163.33	3258	5162.28	3259	5161.48	3260	5160.82
3261	5158.99	3262	5156.22	3263	5153.66	3264	5151.74	3265	5149.97
3266	5147.87	3267	5164.26	3268	5164.46	3269	5164.49	3270	5164.00
3271	5164.00	3272	5168.17	3273	5163.82	3274	5148.36	3275	5147.19
3276	5149.65	3277	5144.15	3278	5147.30	3279	5142.54	3280	5145.67
3281	5143.32	3282	5141.35	3283	5145.71	3284	5163.16	3285	5162.23
3286	5161.36	3287	5160.42	3288	5158.63	3289	5156.46	3290	5154.23
3291	5152.30	3292	5150.37	3293	5163.38	3294	5163.25	3295	5163.00
3296	5162.88	3297	5162.68	3298	5164.93	3299	5151.44	3300	5150.20
3301	5151.82	3302	5148.81	3303	5151.18	3304	5146.91	3305	5149.68
3306	5148.07	3307	5146.25	3308	5162.20	3309	5161.06	3310	5159.93
3311	5158.42	3312	5156.59	3313	5154.73	3314	5153.06	3315	5161.99
3316	5162.03	3317	5161.72	3318	5161.60	3319	5161.80	3320	5153.27
3321	5152.65	3322	5151.78	3323	5150.52	3324	5150.16	3325	5160.76
3326	5159.41	3327	5157.94	3328	5156.31	3329	5154.73	3330	5160.80
3331	5160.60	3332	5160.36	3333	5160.62	3334	5153.82	3335	5153.02
3336	5152.34	3337	5151.60	3338	5159.49	3339	5158.06	3340	5156.55
3341	5155.09	3342	5159.32	3343	5159.05	3344	5159.28	3345	5153.96
3346	5153.32	3347	5152.88	3348	5157.92	3349	5156.47	3350	5155.09
3351	5157.75	3352	5157.79	3353	5153.89	3354	5153.43	3355	5156.30
3356	5154.93	3357	5156.24	3358	5153.87	3359	5154.81		

HYDK1 ARRAY: INP,SFCT (I2,F10.0); NODE,HYDR. COND (AQ.1) (FT/DAY) 5(I5,F10.0)

1 1.0000

1	1282.5900	2	1200.0000	3	1259.1100	4	1200.0000	5	1500.0000
6	1200.0000	7	1375.7300	8	1500.0000	9	1334.2900	10	1200.0000
11	1433.5200	12	1500.0000	13	1500.0000	14	1200.0000	15	1200.0000
16	1200.0000	17	1500.0000	18	400.0000	19	1500.0000	20	1500.0000
21	1346.6300	22	1200.0000	23	1096.7500	24	1337.2000	25	406.1300
26	1500.0000	27	1500.0000	28	1500.0000	29	1500.0000	30	1257.0600
31	1500.0000	32	1392.5800	33	605.5600	34	995.1000	35	1096.3200
36	1479.2800	37	1500.0000	38	1500.0000	39	1218.7400	40	1500.0000
41	690.0800	42	1086.3000	43	525.4500	44	80.0000	45	80.0000
46	55.0000	47	1500.0000	48	1500.0000	49	416.1100	50	1462.9400
51	400.0000	52	1419.7600	53	542.8100	54	80.0000	55	80.0000
56	80.0000	57	55.0000	58	200.0000	59	1238.6400	60	540.9600
61	1088.3900	62	497.5800	63	1411.7200	64	400.0000	65	80.0000
66	80.0000	67	80.0000	68	55.0000	69	55.0000	70	200.0000
71	400.0000	72	594.3200	73	858.4700	74	454.7900	75	1444.2600
76	942.6100	77	30.0000	78	30.0000	79	30.0000	80	55.0000
81	55.0000	82	55.0000	83	100.0000	84	400.0000	85	419.3000
86	529.5100	87	510.0600	88	275.0000	89	865.4300	90	30.0000
91	20.0000	92	35.0000	93	55.0000	94	55.0000	95	55.0000
96	55.0000	97	50.0000	98	400.0000	99	553.9500	100	250.0000

101	325.0000	102	275.0000	103	100.0000	104	70.0000	105	250.0000
106	250.0000	107	250.0000	108	250.0000	109	250.0000	110	250.0000
111	250.0000	112	250.0000	113	250.0000	114	250.0000	115	150.0000
116	150.0000	117	150.0000	118	150.0000	119	100.0000	120	100.0000
121	100.0000	122	100.0000	123	150.0000	124	200.0000	125	200.0000
126	200.0000	127	200.0000	128	200.0000	129	200.0000	130	200.0000
131	200.0000	132	200.0000	133	200.0000	134	228.8200	135	230.0000
136	230.0000	137	230.0000	138	230.0000	139	230.0000	140	230.0000
141	150.0000	142	150.0000	143	40.0000	144	15.0000	145	15.0000
146	25.0000	147	55.0000	148	55.0000	149	55.0000	150	50.0000
151	250.0000	152	250.0000	153	325.0000	154	275.0000	155	100.0000
156	110.0000	157	250.0000	158	250.0000	159	250.0000	160	250.0000
161	250.0000	162	250.0000	163	250.0000	164	250.0000	165	250.0000
166	100.0000	167	150.0000	168	150.0000	169	125.0000	170	100.0000
171	100.0000	172	100.0000	173	100.0000	174	100.0000	175	215.0000
176	200.0000	177	200.0000	178	200.0000	179	200.0000	180	200.0000
181	200.0000	182	200.0000	183	200.0000	184	200.0000	185	228.7200
186	230.0000	187	230.0000	188	230.0000	189	230.0000	190	230.0000
191	230.0000	192	150.0000	193	150.0000	194	110.0000	195	20.0000
196	15.0000	197	15.0000	198	15.0000	199	25.0000	200	55.0000
201	90.0000	202	225.0000	203	250.0000	204	250.0000	205	325.0000
206	250.0000	207	100.0000	208	210.0000	209	250.0000	210	250.0000
211	250.0000	212	235.0700	213	100.0000	214	100.0000	215	100.0000
216	100.0000	217	100.0000	218	100.0000	219	125.0000	220	100.0000
221	100.0000	222	100.0000	223	100.0000	224	100.0000	225	100.0000
226	100.0000	227	100.0000	228	200.0000	229	200.0000	230	200.0000
231	200.0000	232	200.0000	233	200.0000	234	200.0000	235	200.0000
236	220.1600	237	230.0000	238	230.0000	239	230.0000	240	230.0000
241	230.0000	242	230.0000	243	150.0000	244	150.0000	245	375.0000
246	100.0000	247	30.0000	248	25.0000	249	20.0000	250	15.0000
251	30.0000	252	90.0000	253	250.0000	254	250.0000	255	250.0000
256	100.0000	257	200.0000	258	250.0000	259	75.0000	260	210.0000
261	100.0000	262	100.0000	263	100.0000	264	100.0000	265	100.0000
266	100.0000	267	100.0000	268	100.0000	269	100.0000	270	100.0000
271	100.0000	272	100.0000	273	100.0000	274	200.0000	275	100.0000
276	100.0000	277	100.0000	278	100.0000	279	100.0000	280	200.0000
281	200.0000	282	200.0000	283	200.0000	284	200.0000	285	200.0000
286	205.7800	287	214.2000	288	230.0000	289	230.0000	290	230.0000
291	230.0000	292	230.0000	293	230.0000	294	150.0000	295	150.0000
296	375.0000	297	350.0000	298	100.0000	299	40.0000	300	25.0000
301	25.0000	302	30.0000	303	50.0000	304	100.0000	305	250.0000
306	250.0000	307	250.0000	308	250.0000	309	200.0000	310	250.0000
311	100.0000	312	210.0000	313	100.0000	314	100.0000	315	100.0000
316	100.0000	317	100.0000	318	100.0000	319	100.0000	320	100.0000
321	100.0000	322	375.0000	323	375.0000	324	400.0000	325	250.0000
326	160.0000	327	160.0000	328	160.0000	329	160.0000	330	400.0000
331	400.0000	332	200.0000	333	200.0000	334	200.0000	335	200.0000
336	200.0000	337	200.0000	338	212.8800	339	230.0000	340	230.0000
341	230.0000	342	230.0000	343	230.0000	344	230.0000	345	150.0000
346	150.0000	347	375.0000	348	400.0000	349	400.0000	350	100.0000
351	80.0000	352	80.0000	353	40.0000	354	40.0000	355	50.0000
356	100.0000	357	110.0000	358	120.0000	359	150.0000	360	170.0000
361	200.0000	362	250.0000	363	200.0000	364	350.0000	365	190.0000
366	210.0000	367	220.0000	368	230.0000	369	100.0000	370	150.0000
371	200.0000	372	250.0000	373	300.0000	374	350.0000	375	390.0000
376	400.0000	377	300.0000	378	300.0000	379	300.0000	380	300.0000
381	400.0000	382	400.0000	383	200.0000	384	200.0000	385	200.0000
386	200.0000	387	200.0000	388	200.0000	389	225.1000	390	230.0000
391	230.0000	392	230.0000	393	230.0000	394	230.0000	395	230.0000
396	150.0000	397	150.0000	398	400.0000	399	400.0000	400	400.0000
401	300.0000	402	80.0000	403	80.0000	404	80.0000	405	40.0000
406	50.0000	407	60.0000	408	70.0000	409	100.0000	410	130.0000
411	160.0000	412	190.0000	413	200.0000	414	250.0000	415	325.0000
416	450.0000	417	220.0000	418	250.0000	419	280.0000	420	310.0000
421	340.0000	422	370.0000	423	380.0000	424	390.0000	425	400.0000
426	400.0000	427	450.0000	428	450.0000	429	350.0000	430	400.0000
431	400.0000	432	400.0000	433	200.0000	434	200.0000	435	200.0000
436	200.0000	437	200.0000	438	200.0000	439	200.0000	440	100.0000
441	100.0000	442	100.0000	443	230.0000	444	230.0000	445	230.0000
446	100.0000	447	150.0000	448	150.0000	449	400.0000	450	400.0000
451	400.0000	452	300.0000	453	200.0000	454	65.0000	455	65.0000
456	80.0000	457	50.0000	458	50.0000	459	70.0000	460	100.0000
461	130.0000	462	160.0000	463	190.0000	464	220.0000	465	150.0000
466	175.0000	467	190.0000	468	450.0000	469	250.0000	470	300.0000
471	340.0000	472	370.0000	473	380.0000	474	390.0000	475	400.0000
476	400.0000	477	550.0000	478	550.0000	479	400.0000	480	400.0000
481	400.0000	482	500.0000	483	500.0000	484	100.0000	485	100.0000
486	100.0000	487	100.0000	488	100.0000	489	100.0000	490	100.0000
491	100.0000	492	100.0000	493	100.0000	494	100.0000	495	230.0000
496	100.0000	497	100.0000	498	150.0000	499	150.0000	500	400.0000
501	400.0000	502	400.0000	503	300.0000	504	250.0000	505	65.0000
506	30.0000	507	30.0000	508	15.0000	509	50.0000	510	70.0000
511	100.0000	512	130.0000	513	160.0000	514	190.0000	515	220.0000

516	250.0000	517	100.0000	518	80.0000	519	110.0000	520	500.0000
521	300.0000	522	340.0000	523	370.0000	524	380.0000	525	390.0000
526	400.0000	527	550.0000	528	550.0000	529	550.0000	530	550.0000
531	400.0000	532	400.0000	533	400.0000	534	400.0000	535	100.0000
536	100.0000	537	100.0000	538	100.0000	539	100.0000	540	100.0000
541	100.0000	542	100.0000	543	100.0000	544	100.0000	545	100.0000
546	100.0000	547	100.0000	548	100.0000	549	150.0000	550	150.0000
551	400.0000	552	275.0000	553	300.0000	554	300.0000	555	60.0000
556	125.0000	557	25.0000	558	25.0000	559	20.0000	560	15.0000
561	15.0000	562	15.0000	563	50.0000	564	50.0000	565	50.0000
566	50.0000	567	50.0000	568	50.0000	569	50.0000	570	12.5000
571	110.0000	572	300.0000	573	50.0000	574	50.0000	575	50.0000
576	30.0000	577	20.0000	578	20.0000	579	20.0000	580	250.0000
581	250.0000	582	250.0000	583	250.0000	584	250.0000	585	250.0000
586	400.0000	587	100.0000	588	100.0000	589	400.0000	590	100.0000
591	100.0000	592	100.0000	593	100.0000	594	100.0000	595	100.0000
596	100.0000	597	100.0000	598	100.0000	599	100.0000	600	150.0000
601	150.0000	602	600.0000	603	275.0000	604	150.0000	605	60.0000
606	60.0000	607	60.0000	608	60.0000	609	15.0000	610	15.0000
611	15.0000	612	15.0000	613	15.0000	614	15.0000	615	30.0000
616	50.0000	617	50.0000	618	50.0000	619	50.0000	620	50.0000
621	30.0000	622	12.5000	623	50.0000	624	100.0000	625	50.0000
626	50.0000	627	30.0000	628	13.0000	629	13.0000	630	13.0000
631	30.0000	632	100.0000	633	100.0000	634	100.0000	635	75.0000
636	75.0000	637	100.0000	638	400.0000	639	100.0000	640	100.0000
641	100.0000	642	100.0000	643	100.0000	644	100.0000	645	100.0000
646	100.0000	647	100.0000	648	100.0000	649	100.0000	650	100.0000
651	150.0000	652	150.0000	653	60.0000	654	250.0000	655	150.0000
656	60.0000	657	60.0000	658	60.0000	659	60.0000	660	60.0000
661	10.0000	662	20.0000	663	20.0000	664	15.0000	665	15.0000
666	15.0000	667	15.0000	668	30.0000	669	50.0000	670	50.0000
671	50.0000	672	50.0000	673	30.0000	674	8.0000	675	4.5800
676	35.0000	677	50.0000	678	30.0000	679	12.0000	680	12.0000
681	12.0000	682	12.0000	683	20.0000	684	20.0000	685	50.0000
686	50.0000	687	50.0000	688	100.0000	689	275.0000	690	100.0000
691	100.0000	692	100.0000	693	100.0000	694	100.0000	695	70.0000
696	70.0000	697	70.0000	698	100.0000	699	100.0000	700	100.0000
701	100.0000	702	150.0000	703	150.0000	704	60.0000	705	100.0000
706	60.0000	707	60.0000	708	60.0000	709	60.0000	710	60.0000
711	60.0000	712	125.0000	713	125.0000	714	100.0000	715	85.0000
716	15.0000	717	15.0000	718	15.0000	719	15.0000	720	15.0000
721	30.0000	722	50.0000	723	50.0000	724	50.0000	725	10.0000
726	5.0000	727	5.0000	728	35.0000	729	50.0000	730	30.0000
731	12.0000	732	12.0000	733	12.0000	734	12.0000	735	20.0000
736	50.0000	737	50.0000	738	50.0000	739	50.0000	740	100.0000
741	70.0000	742	70.0000	743	70.0000	744	70.0000	745	70.0000
746	70.0000	747	70.0000	748	70.0000	749	70.0000	750	100.0000
751	100.0000	752	100.0000	753	150.0000	754	150.0000	755	50.0000
756	100.0000	757	40.0000	758	15.0000	759	60.0000	760	60.0000
761	60.0000	762	60.0000	763	60.0000	764	100.0000	765	125.0000
766	125.0000	767	100.0000	768	100.0000	769	85.0000	770	15.0000
771	15.0000	772	15.0000	773	15.0000	774	30.0000	775	50.0000
776	50.0000	777	10.0000	778	4.8800	779	4.6200	780	5.0000
781	30.0000	782	12.0000	783	12.0000	784	12.0000	785	12.0000
786	12.0000	787	50.0000	788	50.0000	789	50.0000	790	50.0000
791	30.0000	792	70.0000	793	70.0000	794	70.0000	795	70.0000
796	70.0000	797	70.0000	798	70.0000	799	70.0000	800	70.0000
801	70.0000	802	100.0000	803	100.0000	804	150.0000	805	150.0000
806	50.0000	807	60.0000	808	40.0000	809	12.0000	810	12.0000
811	60.0000	812	60.0000	813	60.0000	814	60.0000	815	75.0000
816	150.0000	817	125.0000	818	125.0000	819	100.0000	820	100.0000
821	85.0000	822	10.0000	823	15.0000	824	15.0000	825	15.0000
826	30.0000	827	50.0000	828	40.0000	829	10.0000	830	3.3300
831	5.0000	832	10.0000	833	15.0000	834	25.0000	835	100.0000
836	12.0000	837	12.0000	838	12.0000	839	50.0000	840	65.0000
841	65.0000	842	30.0000	843	35.0000	844	70.0000	845	70.0000
846	70.0000	847	70.0000	848	70.0000	849	5.0000	850	10.0000
851	70.0000	852	70.0000	853	100.0000	854	100.0000	855	150.0000
856	150.0000	857	25.0000	858	100.0000	859	30.0000	860	20.0000
861	12.0000	862	10.0000	863	60.0000	864	85.0000	865	85.0000
866	85.0000	867	150.0000	868	150.0000	869	125.0000	870	125.0000
871	100.0000	872	100.0000	873	85.0000	874	50.0000	875	10.0000
876	15.0000	877	15.0000	878	15.0000	879	15.0000	880	15.0000
881	10.0000	882	5.0000	883	5.0000	884	5.0000	885	25.0000
886	100.0000	887	100.0000	888	100.0000	889	12.0000	890	12.0000
891	50.0000	892	65.0000	893	65.0000	894	35.0000	895	70.0000
896	70.0000	897	70.0000	898	70.0000	899	5.0000	900	5.0000
901	70.0000	902	70.0000	903	70.0000	904	70.0000	905	100.0000
906	150.0000	907	150.0000	908	8.0000	909	30.0000	910	30.0000
911	20.0000	912	10.0000	913	10.0000	914	10.0000	915	75.0000
916	80.0000	917	75.0000	918	150.0000	919	150.0000	920	150.0000
921	175.0000	922	175.0000	923	100.0000	924	100.0000	925	85.0000
926	50.0000	927	15.0000	928	15.0000	929	25.0000	930	25.0000

931 25.0000 932 25.0000 933 10.0000 934 5.0000 935 25.0000
 936 25.0000 937 100.0000 938 100.0000 939 100.0000 940 100.0000
 941 50.0000 942 50.0000 943 55.0000 944 65.0000 945 35.0000
 946 20.0000 947 70.0000 948 70.0000 949 70.0000 950 5.0000
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 956 70.0000 957 150.0000 958 150.0000 959 10.0000 960 8.0000
 961 9.0000 962 30.0000 963 20.0000 964 10.0000 965 10.0000
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 976 150.0000 977 100.0000 978 85.0000 979 50.0000 980 15.0000
 981 15.0000 982 25.0000 983 25.0000 984 25.0000 985 25.0000
 986 15.0000 987 25.0000 988 25.0000 989 100.0000 990 100.0000
 991 100.0000 992 100.0000 993 100.0000 994 100.0000 995 100.0000
 996 100.0000 997 100.0000 998 20.0000 999 70.0000 1000 5.0000
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 1006 70.0000 1007 70.0000 1008 150.0000 1009 150.0000 1010 25.0000
 1011 160.0000 1012 15.0000 1013 9.0000 1014 30.0000 1015 20.0000
 1016 15.0000 1017 20.0000 1018 10.0000 1019 10.0000 1020 80.0000
 1021 100.0000 1022 100.0000 1023 100.0000 1024 150.0000 1025 150.0000
 1026 150.0000 1027 175.0000 1028 175.0000 1029 150.0000 1030 150.0000
 1031 150.0000 1032 75.0000 1033 75.0000 1034 125.0000 1035 125.0000
 1036 125.0000 1037 125.0000 1038 200.0000 1039 25.0000 1040 25.0000
 1041 100.0000 1042 100.0000 1043 100.0000 1044 100.0000 1045 100.0000
 1046 100.0000 1047 100.0000 1048 100.0000 1049 100.0000 1050 20.0000
 1051 5.0000 1052 5.0000 1053 5.0000 1054 10.0000 1055 70.0000
 1056 70.0000 1057 70.0000 1058 70.0000 1059 150.0000 1060 150.0000
 1061 25.0000 1062 160.0000 1063 25.0000 1064 15.0000 1065 20.0000
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 1071 80.0000 1072 80.0000 1073 80.0000 1074 200.0000 1075 100.0000
 1076 100.0000 1077 150.0000 1078 175.0000 1079 175.0000 1080 175.0000
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 1091 200.0000 1092 25.0000 1093 200.0000 1094 100.0000 1095 100.0000
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 1141 250.0000 1142 200.0000 1143 200.0000 1144 200.0000 1145 200.0000
 1146 200.0000 1147 200.0000 1148 100.0000 1149 100.0000 1150 100.0000
 1151 100.0000 1152 100.0000 1153 100.0000 1154 100.0000 1155 150.0000
 1156 10.0000 1157 10.0000 1158 30.0000 1159 70.0000 1160 70.0000
 1161 70.0000 1162 70.0000 1163 150.0000 1164 150.0000 1165 85.0000
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 1181 100.0000 1182 225.0000 1183 225.0000 1184 225.0000 1185 225.0000
 1186 225.0000 1187 225.0000 1188 225.0000 1189 225.0000 1190 250.0000
 1191 250.0000 1192 250.0000 1193 250.0000 1194 250.0000 1195 200.0000
 1196 200.0000 1197 200.0000 1198 200.0000 1199 200.0000 1200 200.0000
 1201 100.0000 1202 100.0000 1203 100.0000 1204 100.0000 1205 100.0000
 1206 30.0000 1207 100.0000 1208 30.0000 1209 30.0000 1210 30.0000
 1211 70.0000 1212 70.0000 1213 70.0000 1214 70.0000 1215 150.0000
 1216 150.0000 1217 25.0000 1218 25.0000 1219 25.0000 1220 15.0000
 1221 25.0000 1222 25.0000 1223 15.0000 1224 9.0000 1225 30.0000
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 1231 250.0000 1232 250.0000 1233 250.0000 1234 250.0000 1235 250.0000
 1236 250.0000 1237 250.0000 1238 250.0000 1239 250.0000 1240 250.0000
 1241 250.0000 1242 250.0000 1243 250.0000 1244 250.0000 1245 250.0000
 1246 225.0000 1247 200.0000 1248 200.0000 1249 200.0000 1250 200.0000
 1251 200.0000 1252 200.0000 1253 100.0000 1254 100.0000 1255 100.0000
 1256 100.0000 1257 100.0000 1258 100.0000 1259 30.0000 1260 30.0000
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 1266 150.0000 1267 150.0000 1268 25.0000 1269 25.0000 1270 25.0000
 1271 15.0000 1272 25.0000 1273 25.0000 1274 10.0000 1275 25.0000
 1276 25.0000 1277 55.0000 1278 40.0000 1279 40.0000 1280 120.0000
 1281 275.0000 1282 275.0000 1283 250.0000 1284 250.0000 1285 250.0000
 1286 250.0000 1287 250.0000 1288 250.0000 1289 250.0000 1290 250.0000
 1291 250.0000 1292 250.0000 1293 250.0000 1294 250.0000 1295 250.0000
 1296 200.0000 1297 175.0000 1298 200.0000 1299 200.0000 1300 200.0000
 1301 200.0000 1302 200.0000 1303 200.0000 1304 100.0000 1305 100.0000
 1306 100.0000 1307 100.0000 1308 100.0000 1309 30.0000 1310 30.0000
 1311 30.0000 1312 70.0000 1313 90.0000 1314 70.0000 1315 70.0000
 1316 150.0000 1317 150.0000 1318 25.0000 1319 20.0000 1320 25.0000
 1321 10.0000 1322 25.0000 1323 25.0000 1324 9.0000 1325 20.0000
 1326 20.0000 1327 55.0000 1328 40.0000 1329 40.0000 1330 40.0000
 1331 275.0000 1332 275.0000 1333 275.0000 1334 250.0000 1335 250.0000
 1336 250.0000 1337 250.0000 1338 250.0000 1339 250.0000 1340 250.0000
 1341 250.0000 1342 250.0000 1343 225.0000 1344 225.0000 1345 200.0000

1346	375.0000	1347	150.0000	1348	150.0000	1349	100.0000	1350	100.0000
1351	100.0000	1352	100.0000	1353	100.0000	1354	100.0000	1355	100.0000
1356	100.0000	1357	100.0000	1358	30.0000	1359	30.0000	1360	30.0000
1361	70.0000	1362	100.0000	1363	70.0000	1364	70.0000	1365	150.0000
1366	150.0000	1367	20.0000	1368	20.0000	1369	20.0000	1370	10.0000
1371	20.0000	1372	25.0000	1373	20.0000	1374	15.0000	1375	20.0000
1376	25.0000	1377	40.0000	1378	40.0000	1379	40.0000	1380	40.0000
1381	275.0000	1382	250.0000	1383	250.0000	1384	250.0000	1385	250.0000
1386	250.0000	1387	250.0000	1388	250.0000	1389	250.0000	1390	225.0000
1391	225.0000	1392	225.0000	1393	200.0000	1394	200.0000	1395	150.0000
1396	100.0000	1397	100.0000	1398	100.0000	1399	100.0000	1400	100.0000
1401	100.0000	1402	100.0000	1403	40.0000	1404	40.0000	1405	40.0000
1406	40.0000	1407	40.0000	1408	30.0000	1409	30.0000	1410	70.0000
1411	130.0000	1412	70.0000	1413	70.0000	1414	150.0000	1415	150.0000
1416	20.0000	1417	20.0000	1418	20.0000	1419	8.0000	1420	20.0000
1421	20.0000	1422	20.0000	1423	15.0000	1424	15.0000	1425	25.0000
1426	20.0000	1427	20.0000	1428	40.0000	1429	40.0000	1430	40.0000
1431	40.0000	1432	250.0000	1433	250.0000	1434	250.0000	1435	250.0000
1436	250.0000	1437	250.0000	1438	250.0000	1439	225.0000	1440	200.0000
1441	225.0000	1442	200.0000	1443	200.0000	1444	150.0000	1445	100.0000
1446	100.0000	1447	70.0000	1448	40.0000	1449	40.0000	1450	100.0000
1451	100.0000	1452	40.0000	1453	40.0000	1454	40.0000	1455	40.0000
1456	40.0000	1457	30.0000	1458	30.0000	1459	70.0000	1460	130.0000
1461	150.0000	1462	70.0000	1463	150.0000	1464	150.0000	1465	40.0000
1466	20.0000	1467	70.0000	1468	20.0000	1469	15.0000	1470	20.0000
1471	20.0000	1472	10.0000	1473	10.0000	1474	15.0000	1475	25.0000
1476	20.0000	1477	20.0000	1478	40.0000	1479	40.0000	1480	40.0000
1481	40.0000	1482	250.0000	1483	250.0000	1484	250.0000	1485	250.0000
1486	250.0000	1487	250.0000	1488	225.0000	1489	200.0000	1490	200.0000
1491	200.0000	1492	200.0000	1493	175.0000	1494	100.0000	1495	100.0000
1496	70.0000	1497	40.0000	1498	40.0000	1499	40.0000	1500	40.0000
1501	40.0000	1502	40.0000	1503	40.0000	1504	40.0000	1505	40.0000
1506	40.0000	1507	40.0000	1508	60.0000	1509	150.0000	1510	150.0000
1511	70.0000	1512	150.0000	1513	150.0000	1514	20.0000	1515	20.0000
1516	20.0000	1517	20.0000	1518	15.0000	1519	15.0000	1520	20.0000
1521	10.0000	1522	5.0000	1523	3.0000	1524	25.0000	1525	25.0000
1526	20.0000	1527	20.0000	1528	40.0000	1529	40.0000	1530	40.0000
1531	40.0000	1532	250.0000	1533	250.0000	1534	250.0000	1535	250.0000
1536	225.0000	1537	225.0000	1538	200.0000	1539	200.0000	1540	200.0000
1541	200.0000	1542	150.0000	1543	100.0000	1544	100.0000	1545	70.0000
1546	40.0000	1547	40.0000	1548	40.0000	1549	40.0000	1550	40.0000
1551	40.0000	1552	40.0000	1553	40.0000	1554	40.0000	1555	50.0000
1556	40.0000	1557	60.0000	1558	170.0000	1559	150.0000	1560	70.0000
1561	150.0000	1562	150.0000	1563	20.0000	1564	20.0000	1565	20.0000
1566	15.0000	1567	15.0000	1568	20.0000	1569	15.0000	1570	5.0000
1571	3.0000	1572	3.0000	1573	1.0000	1574	20.0000	1575	25.0000
1576	55.0000	1577	20.0000	1578	20.0000	1579	40.0000	1580	40.0000
1581	40.0000	1582	40.0000	1583	250.0000	1584	250.0000	1585	250.0000
1586	225.0000	1587	225.0000	1588	225.0000	1589	200.0000	1590	200.0000
1591	200.0000	1592	150.0000	1593	100.0000	1594	100.0000	1595	70.0000
1596	40.0000	1597	40.0000	1598	40.0000	1599	40.0000	1600	40.0000
1601	40.0000	1602	40.0000	1603	40.0000	1604	40.0000	1605	40.0000
1606	50.0000	1607	60.0000	1608	190.0000	1609	230.0000	1610	100.0000
1611	150.0000	1612	150.0000	1613	15.0000	1614	15.0000	1615	20.0000
1616	15.0000	1617	4.0000	1618	15.0000	1619	20.0000	1620	2.0000
1621	3.0000	1622	1.0000	1623	1.0000	1624	15.0000	1625	20.0000
1626	20.0000	1627	20.0000	1628	20.0000	1629	20.0000	1630	20.0000
1631	40.0000	1632	40.0000	1633	40.0000	1634	40.0000	1635	250.0000
1636	200.0000	1637	225.0000	1638	225.0000	1639	200.0000	1640	200.0000
1641	200.0000	1642	175.0000	1643	150.0000	1644	100.0000	1645	100.0000
1646	70.0000	1647	40.0000	1648	40.0000	1649	40.0000	1650	40.0000
1651	40.0000	1652	40.0000	1653	40.0000	1654	40.0000	1655	40.0000
1656	40.0000	1657	40.0000	1658	40.0000	1659	200.0000	1660	230.0000
1661	100.0000	1662	150.0000	1663	150.0000	1664	15.0000	1665	15.0000
1666	15.0000	1667	10.0000	1668	2.0000	1669	2.0000	1670	15.0000
1671	35.0000	1672	3.0000	1673	1.0000	1674	1.0000	1675	2.0000
1676	10.0000	1677	25.0000	1678	20.0000	1679	15.0000	1680	20.0000
1681	20.0000	1682	20.0000	1683	20.0000	1684	40.0000	1685	40.0000
1686	40.0000	1687	40.0000	1688	25.0000	1689	200.0000	1690	225.0000
1691	200.0000	1692	200.0000	1693	200.0000	1694	175.0000	1695	150.0000
1696	100.0000	1697	70.0000	1698	70.0000	1699	40.0000	1700	40.0000
1701	40.0000	1702	40.0000	1703	40.0000	1704	40.0000	1705	40.0000
1706	40.0000	1707	40.0000	1708	50.0000	1709	50.0000	1710	40.0000
1711	250.0000	1712	230.0000	1713	150.0000	1714	150.0000	1715	150.0000
1716	15.0000	1717	10.0000	1718	5.0000	1719	2.0000	1720	2.0000
1721	3.0000	1722	10.0000	1723	25.0000	1724	1.0000	1725	1.0000
1726	3.0000	1727	3.0000	1728	35.0000	1729	35.0000	1730	12.0000
1731	25.0000	1732	6.0000	1733	12.0000	1734	6.0000	1735	20.0000
1736	20.0000	1737	20.0000	1738	20.0000	1739	40.0000	1740	40.0000
1741	40.0000	1742	40.0000	1743	150.0000	1744	150.0000	1745	225.0000
1746	200.0000	1747	185.0000	1748	175.0000	1749	200.0000	1750	100.0000
1751	70.0000	1752	40.0000	1753	40.0000	1754	40.0000	1755	40.0000
1756	40.0000	1757	40.0000	1758	40.0000	1759	40.0000	1760	40.0000

1761	40.0000	1762	40.0000	1763	40.0000	1764	40.0000	1765	275.0000
1766	230.0000	1767	150.0000	1768	150.0000	1769	150.0000	1770	1200.0000
1771	4.0000	1772	3.0000	1773	4.0000	1774	3.0000	1775	1.0000
1776	25.0000	1777	1.0000	1778	3.0000	1779	3.0000	1780	3.0000
1781	50.0000	1782	15.0000	1783	25.0000	1784	12.0000	1785	10.0000
1786	10.0000	1787	10.0000	1788	10.0000	1789	10.0000	1790	10.0000
1791	10.0000	1792	89.3500	1793	20.0000	1794	20.0000	1795	20.0000
1796	40.0000	1797	40.0000	1798	40.0000	1799	40.0000	1800	40.0000
1801	150.0000	1802	150.0000	1803	200.0000	1804	175.0000	1805	150.0000
1806	150.0000	1807	180.0000	1808	70.0000	1809	40.0000	1810	40.0000
1811	40.0000	1812	40.0000	1813	40.0000	1814	40.0000	1815	40.0000
1816	40.0000	1817	40.0000	1818	40.0000	1819	40.0000	1820	40.0000
1821	40.0000	1822	275.0000	1823	230.0000	1824	150.0000	1825	150.0000
1826	150.0000	1827	4.0000	1828	6.0000	1829	6.0000	1830	3.0000
1831	3.0000	1832	5.0000	1833	25.0000	1834	3.0000	1835	3.0000
1836	9.0000	1837	40.0000	1838	15.0000	1839	25.0000	1840	12.0000
1841	10.0000	1842	10.0000	1843	10.0000	1844	10.0000	1845	10.0000
1846	10.0000	1847	10.0000	1848	10.0000	1849	20.0000	1850	20.0000
1851	20.0000	1852	40.0000	1853	40.0000	1854	40.0000	1855	40.0000
1856	40.0000	1857	150.0000	1858	150.0000	1859	210.0000	1860	150.0000
1861	125.0000	1862	100.0000	1863	170.0000	1864	40.0000	1865	40.0000
1866	40.0000	1867	40.0000	1868	40.0000	1869	40.0000	1870	40.0000
1871	40.0000	1872	40.0000	1873	40.0000	1874	40.0000	1875	40.0000
1876	300.0000	1877	300.0000	1878	230.0000	1879	150.0000	1880	150.0000
1881	5.0000	1882	10.0000	1883	6.0000	1884	6.0000	1885	6.0000
1886	3.0000	1887	5.0000	1888	9.4300	1889	40.0000	1890	8.6600
1891	9.0000	1892	9.7000	1893	15.0000	1894	20.0000	1895	12.0000
1896	10.0000	1897	10.0000	1898	15.0000	1899	9.0000	1900	9.5700
1901	9.8900	1902	10.0000	1903	10.0000	1904	20.0000	1905	20.0000
1906	20.0000	1907	40.0000	1908	40.0000	1909	40.0000	1910	40.0000
1911	150.0000	1912	150.0000	1913	150.0000	1914	210.0000	1915	125.0000
1916	100.0000	1917	70.0000	1918	40.0000	1919	40.0000	1920	40.0000
1921	40.0000	1922	40.0000	1923	40.0000	1924	40.0000	1925	40.0000
1926	40.0000	1927	40.0000	1928	40.0000	1929	40.0000	1930	300.0000
1931	300.0000	1932	230.0000	1933	150.0000	1934	150.0000	1935	150.0000
1936	10.0000	1937	10.0000	1938	8.0000	1939	8.0000	1940	8.0000
1941	8.0000	1942	9.5400	1943	9.0000	1944	10.0000	1945	10.0000
1946	413.6800	1947	15.0000	1948	20.0000	1949	12.0000	1950	10.0000
1951	15.0000	1952	15.0000	1953	9.0000	1954	10.3200	1955	10.0000
1956	10.0000	1957	10.0000	1958	300.0000	1959	300.0000	1960	20.0000
1961	20.0000	1962	20.0000	1963	40.0000	1964	40.0000	1965	40.0000
1966	40.0000	1967	40.0000	1968	400.0000	1969	150.0000	1970	150.0000
1971	150.0000	1972	100.0000	1973	70.0000	1974	40.0000	1975	40.0000
1976	40.0000	1977	40.0000	1978	40.0000	1979	40.0000	1980	40.0000
1981	40.0000	1982	40.0000	1983	40.0000	1984	40.0000	1985	40.0000
1986	300.0000	1987	300.0000	1988	300.0000	1989	150.0000	1990	150.0000
1991	10.0000	1992	10.0000	1993	8.0000	1994	8.0000	1995	8.0000
1996	8.0000	1997	10.0200	1998	9.0000	1999	10.0000	2000	40.0000
2001	10.0000	2002	20.0000	2003	20.0000	2004	16.0000	2005	10.0000
2006	15.0000	2007	13.0000	2008	15.2000	2009	19.2900	2010	15.0000
2011	10.0000	2012	10.0000	2013	150.0000	2014	300.0000	2015	300.0000
2016	300.0000	2017	20.0000	2018	20.0000	2019	20.0000	2020	40.0000
2021	40.0000	2022	40.0000	2023	40.0000	2024	40.0000	2025	150.0000
2026	150.0000	2027	100.0000	2028	100.0000	2029	100.0000	2030	70.0000
2031	40.0000	2032	40.0000	2033	40.0000	2034	40.0000	2035	40.0000
2036	40.0000	2037	40.0000	2038	40.0000	2039	40.0000	2040	40.0000
2041	150.0000	2042	50.0000	2043	300.0000	2044	300.0000	2045	300.0000
2046	150.0000	2047	5.0000	2048	5.0000	2049	8.0000	2050	8.0000
2051	8.0000	2052	8.0000	2053	6.2500	2054	13.4800	2055	10.0000
2056	40.0000	2057	40.0000	2058	15.0000	2059	15.0000	2060	16.0000
2061	10.0000	2062	20.6700	2063	20.0000	2064	15.0000	2065	15.0000
2066	10.0000	2067	10.0000	2068	6.0000	2069	250.0000	2070	300.0000
2071	250.0000	2072	300.0000	2073	300.0000	2074	300.0000	2075	20.0000
2076	20.0000	2077	20.0000	2078	40.0000	2079	40.0000	2080	40.0000
2081	40.0000	2082	40.0000	2083	150.0000	2084	150.0000	2085	65.0000
2086	150.0000	2087	100.0000	2088	70.0000	2089	40.0000	2090	40.0000
2091	40.0000	2092	40.0000	2093	40.0000	2094	40.0000	2095	40.0000
2096	40.0000	2097	40.0000	2098	40.0000	2099	150.0000	2100	50.0000
2101	300.0000	2102	300.0000	2103	300.0000	2104	3.0000	2105	3.0000
2106	5.0000	2107	8.0000	2108	8.0000	2109	8.0000	2110	8.2100
2111	21.9300	2112	20.3600	2113	40.0000	2114	40.0000	2115	15.0000
2116	15.0000	2117	16.0000	2118	10.0000	2119	10.0000	2120	10.0000
2121	10.0000	2122	10.0000	2123	10.0000	2124	10.0000	2125	6.0000
2126	300.0000	2127	300.0000	2128	300.0000	2129	300.0000	2130	300.0000
2131	300.0000	2132	300.0000	2133	10.0000	2134	6.0000	2135	10.0000
2136	6.0000	2137	10.0000	2138	6.0000	2139	10.0000	2140	6.0000
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2151	150.0000	2152	60.0000	2153	65.0000	2154	70.0000	2155	40.0000
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2166	150.0000	2167	300.0000	2168	300.0000	2169	300.0000	2170	3.0000
2171	3.0000	2172	5.0000	2173	5.0000	2174	11.1100	2175	8.0000

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2186	10.0000	2187	10.0000	2188	10.0000	2189	10.0000	2190	25.0000
2191	14.0000	2192	300.0000	2193	300.0000	2194	300.0000	2195	300.0000
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3351 5.0000 3352 5.0000 3353 5.0000 3354 5.0000 3355 5.0000
3356 5.0000 3357 5.0000 3358 5.0000 3359 5.0000
HYDK2 ARRAY: INF,SFCT (I2,F10.0); NODE,HYDR. COND (AQ,2) (FT/DAY) 5(I5,F10.0)
1 1.0000
1 2.8100 2 2.8100 3 2.8100 4 2.8100 5 2.8100
6 2.8100 7 2.8100 8 2.8100 9 2.8100 10 2.8100
11 2.8100 12 2.8100 13 2.8100 14 2.8100 15 2.8100
16 2.8100 17 2.8100 18 2.8100 19 2.8100 20 2.8100
21 2.8100 22 2.8100 23 2.8100 24 2.8100 25 2.8100
26 2.8100 27 2.8100 28 2.8100 29 2.8100 30 2.8100
31 2.8100 32 2.8100 33 2.8100 34 2.8100 35 2.8100
36 2.8100 37 2.8100 38 2.8100 39 2.8100 40 2.8100
41 2.8100 42 2.8100 43 2.8100 44 2.8100 45 2.8100
46 2.8100 47 2.8100 48 2.8100 49 2.8100 50 2.8100

```


51	2.8100	52	2.8100	53	2.8100	54	2.8100	55	2.8100
56	2.8100	57	2.8100	58	2.8100	59	2.8100	60	2.8100
61	2.8100	62	2.8100	63	2.8100	64	2.8100	65	2.8100
66	2.8100	67	2.8100	68	2.8100	69	2.8100	70	2.8100
71	2.8100	72	2.8100	73	2.8100	74	2.8100	75	2.8100
76	2.8100	77	2.8100	78	2.0000	79	2.8100	80	2.8100
81	2.8100	82	2.8100	83	2.8100	84	2.8100	85	2.8100
86	2.8100	87	2.8100	88	2.8100	89	2.8100	90	2.8100
91	2.0000	92	2.0000	93	2.0000	94	2.0000	95	2.0000
96	2.8100	97	4.0000	98	2.8100	99	2.8100	100	2.8100
101	2.8100	102	8.0000	103	8.0000	104	8.0000	105	2.8000
106	2.8000	107	2.8000	108	2.8000	109	2.8000	110	2.8000
111	2.8000	112	2.8000	113	2.8000	114	2.8000	115	2.8000
116	2.8000	117	2.8000	118	2.8000	119	2.8000	120	2.8000
121	2.8000	122	2.8000	123	2.8000	124	2.8000	125	2.8000
126	4.0000	127	4.0000	128	4.0000	129	4.0000	130	4.0000
131	4.0000	132	4.0000	133	4.0000	134	12.0000	135	12.0000
136	12.0000	137	12.0000	138	12.0000	139	14.0000	140	6.0000
141	6.0000	142	6.0000	143	9.0000	144	2.0000	145	2.0000
146	2.0000	147	2.0000	148	2.0000	149	4.0000	150	4.0000
151	2.8100	152	2.8100	153	2.8100	154	8.0000	155	8.0000
156	8.0000	157	2.8000	158	2.8000	159	2.8000	160	2.8000
161	2.8000	162	2.8000	163	2.8000	164	2.8000	165	2.8000
166	2.8000	167	2.8000	168	2.8000	169	2.8000	170	2.8000
171	2.8000	172	2.8000	173	2.8000	174	2.8000	175	2.8000
176	2.8000	177	2.8000	178	4.0000	179	4.0000	180	4.0000
181	4.0000	182	4.0000	183	4.0000	184	4.0000	185	12.0000
186	12.0000	187	12.0000	188	12.0000	189	12.0000	190	14.0000
191	6.0000	192	6.0000	193	6.0000	194	9.0000	195	8.0000
196	2.0000	197	2.0000	198	2.0000	199	2.0000	200	4.0000
201	4.0000	202	4.0000	203	2.8100	204	2.8100	205	2.8100
206	8.0000	207	8.0000	208	8.0000	209	2.8100	210	2.8100
211	2.8100	212	2.8000	213	2.8000	214	2.8000	215	2.8000
216	2.8000	217	2.8000	218	2.8000	219	2.8000	220	2.8000
221	2.8000	222	2.8000	223	2.8000	224	2.8000	225	2.8000
226	2.8000	227	2.8000	228	4.0000	229	4.0000	230	4.0000
231	4.0000	232	4.0000	233	4.0000	234	4.0000	235	4.0000
236	12.0000	237	12.0000	238	12.0000	239	12.0000	240	12.0000
241	14.0000	242	6.0000	243	6.0000	244	6.0000	245	8.0000
246	8.0000	247	8.0000	248	2.0000	249	2.0000	250	2.0000
251	4.0000	252	4.0000	253	4.0000	254	6.0000	255	6.0000
256	2.8000	257	2.8100	258	8.0000	259	12.0000	260	8.0000
261	2.8000	262	2.8000	263	2.8000	264	2.8000	265	2.8000
266	2.8000	267	2.8000	268	2.8000	269	2.8000	270	2.8000
271	2.8000	272	2.8000	273	10.0000	274	10.0000	275	10.0000
276	2.8000	277	2.8000	278	2.8000	279	4.0000	280	4.0000
281	4.0000	282	4.0000	283	4.0000	284	4.0000	285	4.0000
286	12.0000	287	12.0000	288	12.0000	289	12.0000	290	12.0000
291	12.0000	292	14.0000	293	6.0000	294	6.0000	295	6.0000
296	12.0000	297	8.0000	298	8.0000	299	8.0000	300	2.8100
301	2.8100	302	4.0000	303	4.0000	304	11.0000	305	4.0000
306	4.0000	307	4.0000	308	4.0000	309	2.8100	310	1.5000
311	12.0000	312	12.0000	313	4.0000	314	4.0000	315	4.0000
316	4.0000	317	8.0000	318	8.0000	319	2.8000	320	2.8000
321	2.8000	322	10.0000	323	10.0000	324	10.0000	325	10.0000
326	10.0000	327	6.0000	328	4.0000	329	4.0000	330	4.0000
331	4.0000	332	4.0000	333	4.0000	334	4.0000	335	4.0000
336	4.0000	337	4.0000	338	12.0000	339	12.0000	340	12.0000
341	10.0000	342	10.0000	343	14.0000	344	6.0000	345	6.0000
346	6.0000	347	12.0000	348	8.0000	349	8.0000	350	8.0000
351	2.8100	352	2.8100	353	4.0000	354	4.0000	355	11.0000
356	11.0000	357	11.0000	358	10.0000	359	10.0000	360	10.0000
361	2.8000	362	1.5000	363	12.0000	364	12.0000	365	10.0000
366	8.0000	367	8.0000	368	8.0000	369	8.0000	370	8.0000
371	8.0000	372	8.0000	373	10.0000	374	10.0000	375	10.0000
376	10.0000	377	6.0000	378	6.0000	379	4.0000	380	4.0000
381	4.0000	382	4.0000	383	4.0000	384	4.0000	385	4.0000
386	4.0000	387	4.0000	388	4.0000	389	12.0000	390	12.0000
391	10.0000	392	10.0000	393	10.0000	394	14.0000	395	6.0000
396	6.0000	397	6.0000	398	12.0000	399	8.0000	400	8.0000
401	3.5000	402	2.8100	403	2.8100	404	2.8100	405	4.0000
406	4.0000	407	11.0000	408	11.0000	409	10.0000	410	10.0000
411	11.0000	412	11.0000	413	2.8000	414	1.5000	415	12.0000
416	12.0000	417	11.0000	418	10.0000	419	10.0000	420	10.0000
421	10.0000	422	10.0000	423	10.0000	424	10.0000	425	10.0000
426	10.0000	427	6.0000	428	6.0000	429	6.0000	430	4.0000
431	4.0000	432	4.0000	433	6.0000	434	6.0000	435	6.0000
436	6.0000	437	6.0000	438	12.0000	439	12.0000	440	12.0000
441	12.0000	442	10.0000	443	8.0000	444	10.0000	445	14.0000
446	6.0000	447	6.0000	448	6.0000	449	12.0000	450	9.0000
451	8.0000	452	3.5000	453	3.5000	454	2.8100	455	2.8100
456	11.0000	457	11.0000	458	11.0000	459	11.0000	460	10.0000
461	10.0000	462	10.0000	463	11.0000	464	11.0000	465	2.8000

466	1.5000	467	1.5000	468	12.0000	469	11.0000	470	11.0000
471	10.0000	472	10.0000	473	10.0000	474	10.0000	475	10.0000
476	10.0000	477	10.0000	478	6.0000	479	6.0000	480	6.0000
481	4.0000	482	4.0000	483	4.0000	484	6.0000	485	6.0000
486	6.0000	487	6.0000	488	6.0000	489	12.0000	490	12.0000
491	12.0000	492	12.0000	493	10.0000	494	8.0000	495	8.0000
496	14.0000	497	6.0000	498	6.0000	499	6.0000	500	12.0000
501	12.0000	502	10.0000	503	8.0000	504	3.5000	505	2.0000
506	2.0000	507	2.0000	508	2.8100	509	11.0000	510	11.0000
511	11.0000	512	10.0000	513	10.0000	514	10.0000	515	11.0000
516	11.0000	517	2.8000	518	1.5000	519	1.5000	520	12.0000
521	11.0000	522	11.0000	523	10.0000	524	10.0000	525	10.0000
526	10.0000	527	8.0000	528	8.0000	529	6.0000	530	6.0000
531	6.0000	532	6.0000	533	4.0000	534	4.0000	535	6.0000
536	6.0000	537	6.0000	538	6.0000	539	6.0000	540	12.0000
541	12.0000	542	12.0000	543	8.0000	544	8.0000	545	1.0000
546	8.0000	547	14.0000	548	6.0000	549	6.0000	550	6.0000
551	12.0000	552	12.0000	553	8.0000	554	8.0000	555	8.0000
556	3.5000	557	2.0000	558	2.0000	559	2.0000	560	2.8100
561	3.2000	562	3.2000	563	6.0000	564	6.0000	565	6.0000
566	6.0000	567	10.0000	568	10.0000	569	2.8100	570	3.0000
571	1.5000	572	12.0000	573	10.0000	574	6.0000	575	2.8000
576	2.8000	577	2.0000	578	2.8000	579	2.8000	580	4.0000
581	2.8000	582	4.0000	583	4.0000	584	4.0000	585	4.0000
586	6.0000	587	6.0000	588	6.0000	589	6.0000	590	6.0000
591	12.0000	592	12.0000	593	10.0000	594	1.0000	595	8.0000
596	1.0000	597	1.0000	598	8.0000	599	6.0000	600	2.8100
601	6.0000	602	12.0000	603	12.0000	604	12.0000	605	10.0000
606	8.0000	607	8.0000	608	2.8000	609	2.0000	610	2.0000
611	2.0000	612	2.8100	613	2.8100	614	2.8000	615	2.8000
616	6.0000	617	6.0000	618	6.0000	619	10.0000	620	10.0000
621	2.8100	622	3.0000	623	3.0000	624	12.0000	625	10.0000
626	2.8000	627	2.8000	628	2.0000	629	2.0000	630	2.0000
631	4.0000	632	4.0000	633	4.0000	634	4.0000	635	4.0000
636	4.0000	637	6.0000	638	6.0000	639	6.0000	640	6.0000
641	6.0000	642	12.0000	643	12.0000	644	6.0000	645	1.0000
646	8.0000	647	1.0000	648	0.5000	649	1.5000	650	2.8000
651	2.8100	652	2.8100	653	12.0000	654	12.0000	655	12.0000
656	10.0000	657	10.0000	658	8.0000	659	2.8000	660	2.8000
661	2.8100	662	2.0000	663	2.0000	664	2.0000	665	2.8100
666	2.8000	667	2.8000	668	2.8000	669	6.0000	670	6.0000
671	6.0000	672	6.0000	673	2.8100	674	3.0000	675	3.0000
676	1.5000	677	6.0000	678	2.8000	679	2.0000	680	2.0000
681	2.0000	682	2.0000	683	2.8000	684	4.0000	685	4.0000
686	4.0000	687	4.0000	688	4.0000	689	6.0000	690	6.0000
691	6.0000	692	6.0000	693	6.0000	694	6.0000	695	8.0000
696	0.5000	697	2.0000	698	1.0000	699	0.5000	700	0.5000
701	2.8000	702	2.8000	703	2.8000	704	12.0000	705	12.0000
706	12.0000	707	10.0000	708	10.0000	709	10.0000	710	2.8000
711	2.8000	712	2.8000	713	2.8100	714	2.8100	715	2.8100
716	2.8100	717	2.8100	718	2.8100	719	2.8100	720	2.8100
721	2.8000	722	6.0000	723	6.0000	724	6.0000	725	2.8100
726	1.0000	727	2.0000	728	1.5000	729	2.8000	730	2.8000
731	2.0000	732	2.0000	733	2.0000	734	2.0000	735	4.0000
736	4.0000	737	4.0000	738	4.0000	739	4.0000	740	4.0000
741	6.0000	742	6.0000	743	6.0000	744	6.0000	745	6.0000
746	0.5000	747	0.5000	748	1.0000	749	0.5000	750	0.5000
751	0.5000	752	2.8000	753	2.8100	754	2.8100	755	10.0000
756	12.0000	757	10.0000	758	10.0000	759	10.0000	760	8.0000
761	2.8000	762	2.8000	763	2.8000	764	2.8000	765	2.8100
766	2.8100	767	2.8100	768	2.8100	769	2.8100	770	2.8100
771	2.8100	772	2.8100	773	2.8100	774	2.8000	775	2.8000
776	2.8000	777	2.8100	778	1.0000	779	2.0000	780	1.5000
781	2.8000	782	2.0000	783	2.0000	784	2.0000	785	2.0000
786	4.0000	787	4.0000	788	4.0000	789	2.8000	790	4.0000
791	4.0000	792	0.8000	793	3.0000	794	3.0000	795	3.0000
796	3.0000	797	0.5000	798	0.5000	799	0.7500	800	0.5000
801	0.5000	802	0.5000	803	2.8000	804	2.8100	805	2.8100
806	10.0000	807	12.0000	808	12.0000	809	10.0000	810	8.0000
811	2.8000	812	2.8000	813	2.8000	814	2.8000	815	2.8000
816	2.8100	817	2.8100	818	2.8100	819	2.8100	820	2.8100
821	2.8100	822	2.8100	823	2.8100	824	2.8100	825	2.8100
826	2.8000	827	2.8000	828	2.8000	829	2.8000	830	1.0000
831	1.0000	832	0.5000	833	2.8100	834	2.8100	835	2.8100
836	2.8100	837	2.8000	838	2.8000	839	4.0000	840	2.8000
841	2.8000	842	4.0000	843	2.0000	844	0.8000	845	0.8000
846	0.8000	847	0.8000	848	0.5000	849	0.5000	850	0.7500
851	0.5000	852	0.5000	853	0.5000	854	2.8000	855	2.8100
856	2.8100	857	1.5000	858	12.0000	859	12.0000	860	10.0000
861	8.0000	862	4.0000	863	2.8000	864	2.8000	865	2.8000
866	2.8000	867	2.0000	868	2.0000	869	2.8100	870	2.8100
871	2.8100	872	2.8100	873	2.8100	874	2.8100	875	2.8100
876	2.8100	877	2.8100	878	2.8100	879	2.8100	880	2.8100

881	2.8000	882	1.0000	883	2.0000	884	0.5000	885	2.8100
886	2.8100	887	2.8100	888	2.8100	889	2.8000	890	4.0000
891	4.0000	892	2.8000	893	2.8000	894	2.8000	895	0.8000
896	0.8000	897	0.8000	898	0.8000	899	0.5000	900	0.5000
901	0.5000	902	0.5000	903	0.5000	904	0.5000	905	2.8000
906	2.8100	907	2.8100	908	0.5000	909	7.0000	910	12.0000
911	8.0000	912	8.0000	913	4.0000	914	4.0000	915	2.8000
916	2.8000	917	2.8000	918	2.8100	919	2.8100	920	2.8100
921	2.8100	922	2.8100	923	2.8100	924	2.8100	925	2.8100
926	2.8100	927	2.8100	928	2.8100	929	2.8100	930	2.8100
931	2.8100	932	2.8100	933	2.8000	934	0.5000	935	13.4900
936	1.5000	937	2.8100	938	2.8100	939	2.8100	940	2.8100
941	2.8100	942	2.8100	943	2.8000	944	2.8000	945	2.8000
946	2.8000	947	0.8000	948	0.8000	949	0.8000	950	0.5000
951	0.5000	952	0.5000	953	0.5000	954	0.5000	955	0.5000
956	2.8000	957	2.8100	958	2.8100	959	2.8000	960	1.5000
961	0.5000	962	8.0000	963	8.0000	964	8.0000	965	4.0000
966	4.0000	967	4.0000	968	2.8000	969	2.8100	970	2.8100
971	2.8100	972	2.8100	973	2.8100	974	2.8100	975	2.8100
976	2.8100	977	2.8100	978	2.8100	979	2.8100	980	2.8100
981	2.8100	982	2.8100	983	2.8100	984	2.8100	985	2.8100
986	0.5000	987	18.0000	988	2.0000	989	2.8100	990	2.8100
991	2.8100	992	2.8100	993	2.8100	994	2.8100	995	2.8100
996	2.8100	997	2.8000	998	2.8000	999	0.8000	1000	0.8000
1001	0.5000	1002	0.5000	1003	0.5000	1004	0.5000	1005	0.5000
1006	0.5000	1007	5.0000	1008	2.8100	1009	2.8100	1010	2.8000
1011	13.0000	1012	1.5000	1013	2.8000	1014	8.0000	1015	8.0000
1016	8.0000	1017	4.0000	1018	8.0000	1019	8.0000	1020	8.0000
1021	3.0000	1022	3.0000	1023	2.8100	1024	2.8100	1025	2.8100
1026	2.8100	1027	2.8100	1028	2.8100	1029	2.8100	1030	2.8100
1031	2.8100	1032	2.8100	1033	2.8100	1034	2.8100	1035	2.8100
1036	2.8100	1037	2.8100	1038	2.8100	1039	10.0000	1040	1.5000
1041	2.8100	1042	2.8100	1043	2.8100	1044	2.8100	1045	2.8100
1046	2.8100	1047	2.8100	1048	2.8100	1049	2.8100	1050	2.8100
1051	0.5000	1052	0.5000	1053	0.5000	1054	0.5000	1055	0.5000
1056	0.5000	1057	0.7500	1058	2.8000	1059	2.8100	1060	2.8100
1061	2.8000	1062	13.0000	1063	10.0000	1064	1.0000	1065	1.0000
1066	8.0000	1067	8.0000	1068	8.0000	1069	8.0000	1070	8.0000
1071	8.0000	1072	8.0000	1073	8.0000	1074	3.0000	1075	3.0000
1076	2.8100	1077	2.8100	1078	2.8100	1079	2.8100	1080	2.8100
1081	2.8100	1082	2.8100	1083	2.8100	1084	2.8100	1085	2.8100
1086	2.8100	1087	2.8100	1088	2.8100	1089	2.8100	1090	2.8100
1091	2.8100	1092	1.5000	1093	2.8100	1094	2.8100	1095	2.8100
1096	2.8100	1097	2.8100	1098	2.8100	1099	2.8100	1100	2.8100
1101	2.8100	1102	2.8100	1103	0.5000	1104	0.7500	1105	0.5000
1106	0.5000	1107	0.5000	1108	0.7500	1109	2.8000	1110	2.8100
1111	2.8100	1112	2.8000	1113	13.0000	1114	1.0000	1115	1.5000
1116	2.8000	1117	2.8000	1118	1.0000	1119	1.0000	1120	2.8000
1121	8.0000	1122	8.0000	1123	8.0000	1124	8.0000	1125	8.0000
1126	8.0000	1127	8.0000	1128	8.0000	1129	3.0000	1130	3.0000
1131	3.0000	1132	2.8100	1133	2.8100	1134	2.8100	1135	2.8100
1136	2.8100	1137	2.8100	1138	2.8100	1139	2.8100	1140	2.8100
1141	2.8100	1142	2.8100	1143	2.8100	1144	2.8100	1145	2.8100
1146	2.8100	1147	2.8100	1148	2.8100	1149	2.8100	1150	2.8100
1151	2.8000	1152	2.8100	1153	2.8100	1154	2.8100	1155	2.8100
1156	2.8100	1157	0.7500	1158	0.5000	1159	0.5000	1160	0.5000
1161	0.5000	1162	2.8000	1163	2.8100	1164	2.8100	1165	12.0000
1166	1.0000	1167	1.5000	1168	1.0000	1169	12.0000	1170	11.0000
1171	1.0000	1172	1.0000	1173	8.0000	1174	8.0000	1175	10.0000
1176	10.0000	1177	8.0000	1178	8.0000	1179	8.0000	1180	8.0000
1181	8.0000	1182	3.0000	1183	3.0000	1184	2.8100	1185	2.8100
1186	2.8100	1187	2.8100	1188	2.8100	1189	8.0000	1190	2.8100
1191	2.8100	1192	2.8100	1193	2.8100	1194	2.8100	1195	2.8100
1196	2.8100	1197	2.8100	1198	2.8100	1199	2.8100	1200	2.8100
1201	2.8100	1202	2.8100	1203	2.8100	1204	2.8100	1205	2.8100
1206	2.8100	1207	2.8100	1208	2.8100	1209	2.8100	1210	0.5000
1211	0.5000	1212	0.5000	1213	0.7500	1214	2.8000	1215	2.8100
1216	2.8100	1217	1.0000	1218	1.0000	1219	1.3000	1220	1.0000
1221	1.0000	1222	0.5000	1223	1.0000	1224	1.0000	1225	8.0000
1226	12.0000	1227	12.0000	1228	10.0000	1229	11.0000	1230	8.0000
1231	8.0000	1232	8.0000	1233	4.0000	1234	4.0000	1235	4.0000
1236	4.0000	1237	4.0000	1238	4.0000	1239	4.0000	1240	2.8100
1241	2.8100	1242	2.8100	1243	4.0000	1244	4.0000	1245	4.0000
1246	4.0000	1247	4.0000	1248	2.8100	1249	2.8100	1250	2.8100
1251	2.8100	1252	2.8100	1253	2.8100	1254	2.8100	1255	2.8100
1256	2.8100	1257	2.8100	1258	2.8100	1259	2.8100	1260	2.8100
1261	1.2500	1262	0.5000	1263	0.5000	1264	0.7500	1265	2.8000
1266	2.8100	1267	2.8100	1268	0.5000	1269	1.0000	1270	1.3000
1271	1.0000	1272	0.1000	1273	0.1000	1274	1.0000	1275	3.5000
1276	8.0000	1277	12.0000	1278	12.0000	1279	11.0000	1280	11.0000
1281	8.0000	1282	8.0000	1283	8.0000	1284	4.0000	1285	4.0000
1286	4.0000	1287	4.0000	1288	4.0000	1289	4.0000	1290	4.0000
1291	4.0000	1292	4.0000	1293	4.0000	1294	4.0000	1295	4.0000

1296	4.0000	1297	4.0000	1298	4.0000	1299	2.8100	1300	2.8100
1301	2.8100	1302	2.8100	1303	2.8100	1304	2.8100	1305	2.8100
1306	2.8100	1307	2.8100	1308	2.8100	1309	2.8100	1310	2.8100
1311	1.2500	1312	0.5000	1313	0.5000	1314	0.7500	1315	2.8000
1316	2.8100	1317	2.8100	1318	0.4000	1319	1.0000	1320	1.3000
1321	1.0000	1322	0.1000	1323	0.1000	1324	1.0000	1325	5.0000
1326	12.0000	1327	12.0000	1328	12.0000	1329	11.0000	1330	10.0000
1331	8.0000	1332	8.0000	1333	8.0000	1334	4.0000	1335	4.0000
1336	4.0000	1337	4.0000	1338	4.0000	1339	4.0000	1340	4.0000
1341	4.0000	1342	4.0000	1343	4.0000	1344	4.0000	1345	4.0000
1346	4.0000	1347	4.0000	1348	4.0000	1349	2.8100	1350	2.8100
1351	2.8100	1352	2.8100	1353	2.8100	1354	2.8100	1355	2.8100
1356	2.8100	1357	2.8100	1358	2.8100	1359	2.8100	1360	2.8100
1361	0.5000	1362	0.5000	1363	1.2500	1364	2.8100	1365	2.8100
1366	2.8100	1367	0.8000	1368	1.2000	1369	1.3000	1370	1.0000
1371	0.1000	1372	0.1000	1373	0.1000	1374	3.5000	1375	6.0000
1376	12.0000	1377	12.0000	1378	10.0000	1379	10.0000	1380	10.0000
1381	8.0000	1382	10.0000	1383	8.0000	1384	4.0000	1385	2.8100
1386	2.8000	1387	4.0000	1388	4.0000	1389	4.0000	1390	4.0000
1391	4.0000	1392	4.0000	1393	4.0000	1394	4.0000	1395	4.0000
1396	4.0000	1397	4.0000	1398	8.0000	1399	2.8100	1400	2.8100
1401	2.8100	1402	2.8100	1403	2.8100	1404	2.8100	1405	2.8100
1406	2.8100	1407	2.8100	1408	2.8100	1409	2.8100	1410	2.8100
1411	0.5000	1412	1.2500	1413	2.8100	1414	2.8100	1415	2.8100
1416	0.8000	1417	1.2000	1418	1.3000	1419	1.8000	1420	0.2000
1421	0.1000	1422	0.1000	1423	0.1000	1424	5.0000	1425	8.0000
1426	12.0000	1427	12.0000	1428	10.0000	1429	10.0000	1430	10.0000
1431	10.0000	1432	10.0000	1433	6.0000	1434	6.0000	1435	2.8000
1436	4.0000	1437	4.0000	1438	4.0000	1439	4.0000	1440	4.0000
1441	4.0000	1442	4.0000	1443	4.0000	1444	4.0000	1445	4.0000
1446	4.0000	1447	2.8000	1448	2.8100	1449	2.8100	1450	2.8100
1451	2.8100	1452	2.8100	1453	4.0000	1454	2.8100	1455	2.8100
1456	2.8100	1457	2.8100	1458	2.8100	1459	2.8100	1460	0.5000
1461	1.2500	1462	2.8100	1463	2.8100	1464	2.8100	1465	0.8000
1466	0.2000	1467	1.2000	1468	1.0000	1469	1.8000	1470	0.1000
1471	0.1000	1472	0.1000	1473	0.1000	1474	5.0000	1475	12.0000
1476	12.0000	1477	10.0000	1478	10.0000	1479	10.0000	1480	10.0000
1481	10.0000	1482	6.0000	1483	6.0000	1484	6.0000	1485	4.0000
1486	4.0000	1487	4.0000	1488	4.0000	1489	4.0000	1490	4.0000
1491	4.0000	1492	4.0000	1493	4.0000	1494	4.0000	1495	4.0000
1496	2.8000	1497	2.8000	1498	2.8100	1499	2.8100	1500	2.8100
1501	2.8100	1502	2.8100	1503	2.8100	1504	2.8100	1505	2.8100
1506	2.8100	1507	2.8100	1508	2.8100	1509	0.5000	1510	1.2500
1511	2.8100	1512	2.8100	1513	2.8100	1514	0.2700	1515	0.2000
1516	0.1000	1517	1.2000	1518	1.0000	1519	1.8000	1520	0.1000
1521	0.1000	1522	0.0600	1523	0.1000	1524	5.0000	1525	12.0000
1526	12.0000	1527	10.0000	1528	10.0000	1529	10.0000	1530	10.0000
1531	6.0000	1532	6.0000	1533	6.0000	1534	6.0000	1535	4.0000
1536	4.0000	1537	4.0000	1538	4.0000	1539	4.0000	1540	4.0000
1541	4.0000	1542	4.0000	1543	4.0000	1544	4.0000	1545	2.8000
1546	2.8000	1547	2.8100	1548	2.8100	1549	2.8100	1550	2.8100
1551	2.8100	1552	2.8100	1553	2.8100	1554	2.8100	1555	2.8100
1556	2.8100	1557	2.8100	1558	0.5000	1559	1.2500	1560	2.8100
1561	2.8100	1562	2.8100	1563	0.3400	1564	0.1000	1565	0.1000
1566	0.1000	1567	0.5000	1568	1.5000	1569	5.0000	1570	0.1000
1571	0.1200	1572	0.1000	1573	0.1000	1574	1.5000	1575	5.0000
1576	12.0000	1577	10.0000	1578	10.0000	1579	10.0000	1580	10.0000
1581	10.0000	1582	6.0000	1583	6.0000	1584	6.0000	1585	6.0000
1586	4.0000	1587	4.0000	1588	4.0000	1589	4.0000	1590	4.0000
1591	4.0000	1592	4.0000	1593	4.0000	1594	4.0000	1595	2.8000
1596	2.8000	1597	2.8100	1598	2.8100	1599	2.8100	1600	2.8100
1601	2.8100	1602	2.8100	1603	2.8100	1604	2.8100	1605	2.8100
1606	2.8100	1607	2.8100	1608	0.5000	1609	1.2500	1610	2.8100
1611	2.8100	1612	2.8100	1613	0.4900	1614	0.1000	1615	0.1000
1616	0.1000	1617	0.1000	1618	1.0000	1619	5.0000	1620	0.3000
1621	0.1000	1622	0.1000	1623	0.1000	1624	1.0000	1625	5.0000
1626	1.5000	1627	10.0000	1628	10.0000	1629	10.0000	1630	10.0000
1631	10.0000	1632	10.0000	1633	6.0000	1634	6.0000	1635	6.0000
1636	6.0000	1637	4.0000	1638	4.0000	1639	4.0000	1640	4.0000
1641	4.0000	1642	4.0000	1643	4.0000	1644	4.0000	1645	4.0000
1646	2.8000	1647	2.8000	1648	2.8100	1649	2.8100	1650	2.8100
1651	2.8100	1652	2.8100	1653	2.8100	1654	2.8100	1655	2.8100
1656	2.8100	1657	2.8100	1658	2.8100	1659	0.5000	1660	1.2500
1661	2.8100	1662	2.8100	1663	2.8100	1664	0.6000	1665	0.2000
1666	0.2000	1667	0.2000	1668	0.1000	1669	0.1000	1670	0.5000
1671	5.0000	1672	0.1000	1673	0.1000	1674	0.1000	1675	0.1000
1676	0.5000	1677	5.0000	1678	5.0000	1679	1.0000	1680	10.0000
1681	10.0000	1682	10.0000	1683	4.0000	1684	10.0000	1685	10.0000
1686	6.0000	1687	6.0000	1688	4.0000	1689	6.0000	1690	4.0000
1691	4.0000	1692	4.0000	1693	4.0000	1694	4.0000	1695	4.0000
1696	4.0000	1697	2.8000	1698	2.8000	1699	2.8000	1700	2.8100
1701	2.8100	1702	2.8100	1703	2.8100	1704	2.8100	1705	2.8100
1706	2.8100	1707	2.8100	1708	2.8100	1709	2.8100	1710	2.8100

1711	0.5000	1712	1.2500	1713	2.8100	1714	2.8100	1715	2.8100
1716	0.1000	1717	0.2000	1718	0.2000	1719	0.3000	1720	0.3000
1721	0.1000	1722	0.1000	1723	10.0000	1724	0.1000	1725	0.1000
1726	0.1000	1727	1.0000	1728	5.0000	1729	10.0000	1730	0.5000
1731	5.0000	1732	0.2000	1733	0.5000	1734	0.2000	1735	10.0000
1736	4.0000	1737	4.0000	1738	4.0000	1739	4.0000	1740	6.0000
1741	6.0000	1742	4.0000	1743	4.0000	1744	4.0000	1745	4.0000
1746	4.0000	1747	4.0000	1748	4.0000	1749	4.0000	1750	4.0000
1751	2.8000	1752	2.8000	1753	2.8000	1754	2.8100	1755	2.8100
1756	2.8100	1757	2.8100	1758	2.8100	1759	2.8100	1760	2.8100
1761	2.8100	1762	2.8100	1763	2.8100	1764	2.8100	1765	0.5000
1766	1.2500	1767	2.8100	1768	2.8100	1769	2.8100	1770	18.0000
1771	0.2000	1772	0.3000	1773	0.3000	1774	0.3000	1775	0.1000
1776	10.0000	1777	0.1000	1778	0.1000	1779	1.0000	1780	1.0000
1781	10.0000	1782	10.0000	1783	5.0000	1784	1.0000	1785	0.5000
1786	2.8000	1787	10.0000	1788	10.0000	1789	2.8100	1790	0.2000
1791	2.8100	1792	14.6900	1793	10.0000	1794	4.0000	1795	1.4000
1796	4.0000	1797	4.0000	1798	6.0000	1799	4.0000	1800	4.0000
1801	4.0000	1802	4.0000	1803	4.0000	1804	4.0000	1805	4.0000
1806	4.0000	1807	4.0000	1808	4.0000	1809	2.8000	1810	2.8000
1811	2.8100	1812	2.8100	1813	2.8100	1814	2.8100	1815	2.8100
1816	2.8100	1817	2.8100	1818	2.8100	1819	2.8100	1820	2.8100
1821	2.8100	1822	0.5000	1823	2.8100	1824	2.8100	1825	2.8100
1826	2.8100	1827	0.5000	1828	0.3000	1829	0.3000	1830	0.3000
1831	0.3000	1832	0.3000	1833	10.0000	1834	1.0000	1835	1.0000
1836	2.8000	1837	10.0000	1838	10.0000	1839	5.0000	1840	1.0000
1841	0.5000	1842	2.8100	1843	10.0000	1844	10.0000	1845	2.8000
1846	2.8000	1847	2.8000	1848	0.5000	1849	1.2800	1850	1.5300
1851	1.3400	1852	4.0000	1853	6.0000	1854	6.0000	1855	4.0000
1856	4.0000	1857	4.0000	1858	4.0000	1859	4.0000	1860	4.0000
1861	4.0000	1862	4.0000	1863	2.8000	1864	2.8000	1865	2.8000
1866	2.8100	1867	2.8100	1868	2.8100	1869	2.8100	1870	2.8100
1871	2.8100	1872	2.8100	1873	2.8100	1874	2.8100	1875	2.8100
1876	2.8100	1877	0.5000	1878	2.8100	1879	2.8100	1880	2.8100
1881	2.8100	1882	2.8100	1883	1.0000	1884	1.0000	1885	0.3000
1886	0.3000	1887	0.3000	1888	1.0000	1889	6.0500	1890	2.8100
1891	2.8100	1892	10.0000	1893	10.0000	1894	5.0000	1895	1.0000
1896	1.0000	1897	2.8100	1898	2.8100	1899	2.8100	1900	2.8000
1901	2.8000	1902	2.8100	1903	2.0000	1904	1.3900	1905	1.4200
1906	1.7400	1907	1.5000	1908	2.0000	1909	3.0000	1910	4.0000
1911	4.0000	1912	4.0000	1913	4.0000	1914	4.0000	1915	4.0000
1916	4.0000	1917	2.8000	1918	2.8000	1919	2.8000	1920	2.8100
1921	2.8100	1922	2.8100	1923	2.8100	1924	2.8100	1925	2.8100
1926	2.8100	1927	2.8100	1928	2.8100	1929	2.8100	1930	2.8100
1931	2.8100	1932	2.8100	1933	2.8100	1934	2.8100	1935	2.8100
1936	1.0000	1937	2.8100	1938	1.0000	1939	1.0000	1940	1.0000
1941	1.0000	1942	2.8100	1943	2.8100	1944	6.0200	1945	2.8100
1946	10.0000	1947	10.0000	1948	5.0000	1949	1.0000	1950	2.0000
1951	2.8000	1952	2.8100	1953	2.8100	1954	2.8000	1955	2.8100
1956	2.8100	1957	2.0000	1958	2.8100	1959	2.8100	1960	1.4000
1961	1.5000	1962	1.6500	1963	1.5000	1964	2.0000	1965	3.0000
1966	4.0000	1967	4.0000	1968	4.0000	1969	4.0000	1970	4.0000
1971	4.0000	1972	4.0000	1973	2.8000	1974	2.8000	1975	2.8000
1976	2.8100	1977	2.8100	1978	2.8100	1979	2.8100	1980	2.8100
1981	2.8100	1982	2.8100	1983	2.8100	1984	2.8100	1985	2.8100
1986	2.8100	1987	2.8100	1988	2.8100	1989	2.8100	1990	2.8100
1991	0.5000	1992	2.8100	1993	2.8100	1994	2.8100	1995	2.8100
1996	2.8100	1997	2.8100	1998	2.8100	1999	2.8000	2000	6.1600
2001	10.0000	2002	10.0000	2003	5.0000	2004	1.0000	2005	2.0000
2006	2.8000	2007	2.8100	2008	2.8000	2009	2.8100	2010	3.0000
2011	3.0000	2012	2.0000	2013	2.8100	2014	2.8100	2015	2.8100
2016	2.8100	2017	1.4400	2018	1.6000	2019	1.4400	2020	1.5000
2021	2.0000	2022	3.0000	2023	4.0000	2024	4.0000	2025	4.0000
2026	4.0000	2027	4.0000	2028	4.0000	2029	4.0000	2030	2.8000
2031	2.8000	2032	2.8000	2033	2.8100	2034	2.8100	2035	2.8100
2036	2.8100	2037	2.8100	2038	2.8100	2039	2.8100	2040	2.8100
2041	2.8100	2042	2.8100	2043	2.8100	2044	2.8100	2045	2.8100
2046	2.8100	2047	0.5000	2048	0.5000	2049	1.5000	2050	2.8100
2051	2.8100	2052	2.8100	2053	2.8100	2054	2.8000	2055	2.8000
2056	6.0900	2057	10.0000	2058	14.0000	2059	14.0000	2060	1.0000
2061	2.0000	2062	2.8100	2063	2.8000	2064	2.8100	2065	2.8000
2066	3.0000	2067	3.0000	2068	0.3000	2069	2.8100	2070	2.8100
2071	2.8100	2072	2.8100	2073	2.8100	2074	2.8000	2075	1.5000
2076	1.6600	2077	1.5400	2078	1.5000	2079	2.0000	2080	3.0000
2081	4.0000	2082	4.0000	2083	4.0000	2084	4.0000	2085	4.0000
2086	4.0000	2087	4.0000	2088	2.8000	2089	2.8000	2090	2.8100
2091	2.8100	2092	2.8100	2093	2.8100	2094	2.8100	2095	2.8100
2096	2.8100	2097	2.8100	2098	2.8100	2099	2.8100	2100	2.8100
2101	2.8100	2102	2.8100	2103	2.8100	2104	0.5000	2105	0.5000
2106	1.0000	2107	1.5000	2108	1.5000	2109	2.8100	2110	2.8000
2111	2.8000	2112	2.8000	2113	6.2800	2114	10.0000	2115	14.0000
2116	14.0000	2117	1.0000	2118	2.0000	2119	3.7000	2120	3.7000
2121	3.7000	2122	3.0000	2123	3.0000	2124	3.0000	2125	0.3000

2126	2.8100 2127	2.8100 2128	2.8100 2129	2.8100 2130	2.8100
2131	2.8100 2132	2.8100 2133	2.0000 2134	0.3000 2135	2.0000
2136	0.3000 2137	2.0000 2138	0.3000 2139	2.0000 2140	1.0000
2141	1.0000 2142	1.5000 2143	1.7300 2144	1.6400 2145	1.5000
2146	2.0000 2147	3.0000 2148	4.0000 2149	4.0000 2150	4.0000
2151	4.0000 2152	4.0000 2153	2.8000 2154	4.0000 2155	2.8100
2156	2.8100 2157	2.8100 2158	2.8100 2159	2.8100 2160	2.8100
2161	2.8100 2162	2.8100 2163	2.8100 2164	2.8100 2165	2.8100
2166	2.8100 2167	2.8100 2168	2.8100 2169	2.8100 2170	0.5000
2171	0.5000 2172	1.0000 2173	1.0000 2174	1.5000 2175	2.8100
2176	2.8000 2177	2.8000 2178	2.8000 2179	6.6100 2180	10.0000
2181	14.0000 2182	14.0000 2183	1.0000 2184	3.7000 2185	3.7000
2186	3.7000 2187	3.0000 2188	3.0000 2189	3.0000 2190	1.0000
2191	0.3000 2192	2.8100 2193	2.8100 2194	2.8100 2195	2.8100
2196	2.8100 2197	2.8100 2198	2.8100 2199	2.8100 2200	1.0000
2201	0.3000 2202	1.0000 2203	0.3000 2204	0.3000 2205	0.3000
2206	0.3000 2207	0.3000 2208	2.8100 2209	1.5000 2210	1.9300
2211	1.6800 2212	1.5000 2213	2.0000 2214	3.0000 2215	4.0000
2216	4.0000 2217	4.0000 2218	4.0000 2219	4.0000 2220	2.8000
2221	2.8000 2222	2.8100 2223	2.8100 2224	2.8100 2225	2.8100
2226	2.8100 2227	2.8100 2228	2.8100 2229	2.8100 2230	2.8100
2231	2.8100 2232	2.8100 2233	2.8100 2234	2.8100 2235	2.8100
2236	0.5000 2237	1.0000 2238	0.3000 2239	1.0000 2240	1.0000
2241	1.5000 2242	1.5000 2243	2.8000 2244	2.8000 2245	6.8100
2246	6.0000 2247	14.0000 2248	14.0000 2249	3.7000 2250	3.7000
2251	3.0000 2252	3.0000 2253	3.0000 2254	3.0000 2255	13.0000
2256	13.0000 2257	13.0000 2258	2.8000 2259	2.8100 2260	2.8100
2261	2.8100 2262	2.8100 2263	2.8100 2264	2.8100 2265	2.8100
2266	14.0000 2267	13.0000 2268	14.0000 2269	13.0000 2270	14.0000
2271	14.0000 2272	14.0000 2273	2.8100 2274	2.8100 2275	1.5000
2276	1.5000 2277	1.0000 2278	1.5000 2279	2.0000 2280	3.0000
2281	4.0000 2282	4.0000 2283	4.0000 2284	4.0000 2285	4.0000
2286	2.8000 2287	2.8000 2288	2.8100 2289	2.8100 2290	2.8100
2291	2.8100 2292	2.8100 2293	2.8100 2294	2.8100 2295	2.8100
2296	2.8100 2297	2.8100 2298	2.8100 2299	2.8100 2300	2.8100
2301	0.4000 2302	0.4000 2303	1.0000 2304	0.3000 2305	1.0000
2306	1.0000 2307	1.5000 2308	2.8000 2309	2.8000 2310	7.2700
2311	6.0000 2312	14.0000 2313	3.7000 2314	3.7000 2315	3.7000
2316	3.0000 2317	3.0000 2318	3.0000 2319	1.0000 2320	1.0000
2321	1.0000 2322	1.0000 2323	2.8100 2324	2.8100 2325	2.8100
2326	2.8100 2327	2.8100 2328	2.8100 2329	2.8100 2330	2.8100
2331	14.0000 2332	9.8800 2333	14.0000 2334	13.0000 2335	14.0000
2336	13.0000 2337	2.8100 2338	2.8100 2339	2.8100 2340	2.8100
2341	1.5000 2342	1.5000 2343	1.0000 2344	1.5000 2345	2.0000
2346	3.0000 2347	4.0000 2348	4.0000 2349	4.0000 2350	4.0000
2351	4.0000 2352	2.8000 2353	2.8000 2354	2.8100 2355	2.8100
2356	2.8100 2357	2.8100 2358	2.8100 2359	2.8100 2360	2.8100
2361	2.8100 2362	2.8100 2363	2.8100 2364	2.8100 2365	2.8100
2366	0.4000 2367	0.4000 2368	1.0000 2369	1.0000 2370	0.5000
2371	2.0000 2372	2.0000 2373	2.8000 2374	2.0000 2375	7.8700
2376	6.0000 2377	2.0000 2378	2.0000 2379	2.0000 2380	2.0000
2381	2.0000 2382	2.0000 2383	1.0000 2384	1.0000 2385	1.0000
2386	1.0000 2387	1.0000 2388	2.8100 2389	2.8100 2390	2.8100
2391	2.8100 2392	2.8100 2393	2.8100 2394	2.8100 2395	2.8100
2396	6.0000 2397	1.0000 2398	6.0000 2399	1.0000 2400	6.0000
2401	2.8100 2402	2.8100 2403	2.8100 2404	2.8100 2405	2.8100
2406	1.5000 2407	1.5000 2408	1.0000 2409	1.5000 2410	2.0000
2411	3.0000 2412	4.0000 2413	4.0000 2414	4.0000 2415	4.0000
2416	4.0000 2417	2.8000 2418	2.8000 2419	2.8100 2420	2.8100
2421	2.8100 2422	2.8100 2423	2.8100 2424	2.8100 2425	2.8100
2426	2.8100 2427	2.8100 2428	2.8100 2429	2.8100 2430	0.5000
2431	0.4000 2432	1.5000 2433	1.0000 2434	2.0000 2435	0.5000
2436	2.0000 2437	2.0000 2438	2.0000 2439	8.6000 2440	2.0000
2441	2.0000 2442	2.0000 2443	2.0000 2444	2.0000 2445	2.0000
2446	2.0500 2447	2.0200 2448	2.1400 2449	2.2100 2450	2.2600
2451	2.0200 2452	2.8100 2453	2.8100 2454	2.8100 2455	2.8100
2456	2.8100 2457	9.2700 2458	2.1400 2459	9.4500 2460	2.0400
2461	2.8100 2462	2.8100 2463	2.8100 2464	2.8100 2465	2.8100
2466	2.8100 2467	1.5000 2468	1.0000 2469	1.0000 2470	1.0000
2471	2.0000 2472	3.0000 2473	4.0000 2474	4.0000 2475	4.0000
2476	4.0000 2477	4.0000 2478	2.8000 2479	2.8000 2480	2.8100
2481	2.8100 2482	2.8100 2483	2.8100 2484	2.8100 2485	2.8100
2486	2.8100 2487	2.8100 2488	2.8100 2489	2.8100 2490	0.5000
2491	1.5000 2492	1.5000 2493	1.5000 2494	2.0000 2495	2.0000
2496	0.2000 2497	2.0000 2498	2.0000 2499	2.0000 2500	2.0000
2501	2.0000 2502	2.0000 2503	2.0000 2504	2.0000 2505	1.0000
2506	1.0000 2507	1.0000 2508	1.0000 2509	1.5000 2510	1.5000
2511	0.5000 2512	2.8100 2513	2.8100 2514	2.8100 2515	2.8100
2516	1.5000 2517	1.5000 2518	1.0000 2519	2.8100 2520	2.8100
2521	2.8100 2522	2.8100 2523	2.8100 2524	2.8100 2525	2.8100
2526	1.0000 2527	1.0000 2528	1.0000 2529	2.0000 2530	4.0000
2531	4.0000 2532	4.0000 2533	4.0000 2534	4.0000 2535	4.0000
2536	3.0000 2537	2.8000 2538	2.8100 2539	2.8100 2540	2.8100

2541	2.8100 2542	2.8100 2543	2.8100 2544	2.8100 2545	2.8100
2546	2.8100 2547	2.8100 2548	0.2000 2549	2.0000 2550	3.0000
2551	1.5000 2552	2.0000 2553	2.0000 2554	1.5000 2555	0.2000
2556	2.0000 2557	2.0000 2558	2.0000 2559	2.0000 2560	2.0000
2561	2.0000 2562	2.0000 2563	0.5000 2564	1.0000 2565	1.0000
2566	1.0000 2567	1.0000 2568	1.0000 2569	1.0000 2570	2.8100
2571	2.8100 2572	2.8100 2573	2.8100 2574	1.0000 2575	1.0000
2576	2.8100 2577	2.8100 2578	2.8100 2579	2.8100 2580	2.8100
2581	2.8100 2582	2.8100 2583	2.8100 2584	1.0000 2585	1.0000
2586	2.0000 2587	4.0000 2588	4.0000 2589	4.0000 2590	4.0000
2591	4.0000 2592	4.0000 2593	3.0000 2594	2.8000 2595	2.8100
2596	2.8100 2597	2.8100 2598	2.8100 2599	2.8100 2600	2.8100
2601	2.8100 2602	3.0000 2603	2.8100 2604	2.8100 2605	2.0000
2606	2.0000 2607	3.0000 2608	1.5000 2609	1.5000 2610	0.2000
2611	2.0000 2612	2.0000 2613	0.2000 2614	2.0000 2615	2.0000
2616	2.0000 2617	2.0000 2618	2.0000 2619	2.0000 2620	0.5000
2621	1.0000 2622	1.0000 2623	1.0000 2624	1.0000 2625	1.0000
2626	1.0000 2627	2.8100 2628	2.8100 2629	2.8100 2630	2.8100
2631	1.0000 2632	2.8100 2633	2.8100 2634	2.8100 2635	2.8100
2636	2.8100 2637	2.8100 2638	2.8100 2639	1.0000 2640	1.5000
2641	4.0000 2642	4.0000 2643	4.0000 2644	4.0000 2645	4.0000
2646	4.0000 2647	4.0000 2648	2.8000 2649	2.8100 2650	2.8100
2651	2.8100 2652	2.8100 2653	2.8100 2654	2.0000 2655	2.8100
2656	2.8100 2657	2.8100 2658	2.8100 2659	0.2000 2660	2.5000
2661	3.0000 2662	3.5000 2663	1.5000 2664	1.5000 2665	2.0000
2666	2.0000 2667	0.5000 2668	2.0000 2669	2.0000 2670	2.0000
2671	2.0000 2672	2.0000 2673	2.0000 2674	0.5000 2675	1.0000
2676	1.0000 2677	1.0000 2678	1.0000 2679	1.0000 2680	1.0000
2681	2.8100 2682	2.8100 2683	2.8100 2684	2.8100 2685	2.8100
2686	2.8100 2687	2.8100 2688	2.8100 2689	2.8100 2690	1.5000
2691	4.0000 2692	4.0000 2693	4.0000 2694	4.0000 2695	4.0000
2696	4.0000 2697	4.0000 2698	3.0000 2699	2.8100 2700	2.8100
2701	2.8100 2702	2.8100 2703	2.8100 2704	2.8100 2705	2.8100
2706	2.8100 2707	2.8100 2708	2.8100 2709	0.2000 2710	2.5000
2711	3.0000 2712	3.0000 2713	1.5000 2714	1.5000 2715	1.5000
2716	2.0000 2717	0.5000 2718	2.0000 2719	2.0000 2720	2.0000
2721	2.0000 2722	2.0000 2723	2.0000 2724	1.5000 2725	1.5000
2726	1.5000 2727	1.5000 2728	1.5000 2729	1.5000 2730	2.8100
2731	2.8100 2732	2.8100 2733	2.8100 2734	2.8100 2735	2.8100
2736	2.8100 2737	2.8100 2738	2.8100 2739	4.0000 2740	4.0000
2741	4.0000 2742	4.0000 2743	4.0000 2744	4.0000 2745	4.0000
2746	3.0000 2747	2.8100 2748	2.8100 2749	2.8100 2750	2.8100
2751	2.8100 2752	2.8100 2753	2.8100 2754	2.8100 2755	2.8100
2756	2.8100 2757	0.3500 2758	0.2000 2759	2.5000 2760	3.0000
2761	3.5000 2762	1.5000 2763	1.5000 2764	1.5000 2765	0.5000
2766	2.0000 2767	2.0000 2768	2.0000 2769	2.0000 2770	2.0000
2771	2.0000 2772	4.0000 2773	4.0000 2774	4.0000 2775	4.0000
2776	4.0000 2777	2.8100 2778	2.8100 2779	2.8100 2780	2.8100
2781	2.8000 2782	2.8100 2783	2.8100 2784	2.8100 2785	2.8100
2786	4.0000 2787	4.0000 2788	4.0000 2789	4.0000 2790	4.0000
2791	4.0000 2792	4.0000 2793	3.0000 2794	2.8100 2795	2.8100
2796	2.8100 2797	2.8100 2798	2.8100 2799	2.8100 2800	2.8100
2801	2.8100 2802	2.8100 2803	1.0000 2804	0.2000 2805	0.2000
2806	2.0000 2807	3.5000 2808	1.5000 2809	1.5000 2810	1.5000
2811	1.5000 2812	2.0000 2813	2.0000 2814	2.0000 2815	2.0000
2816	2.0000 2817	2.0000 2818	4.0000 2819	4.0000 2820	4.0000
2821	4.0000 2822	2.8100 2823	2.8100 2824	2.8100 2825	2.8100
2826	2.8100 2827	2.8100 2828	2.8100 2829	2.8100 2830	2.8100
2831	2.8100 2832	2.8100 2833	4.0000 2834	4.0000 2835	4.0000
2836	4.0000 2837	4.0000 2838	4.0000 2839	4.0000 2840	2.8100
2841	2.8100 2842	2.8100 2843	2.8100 2844	2.8100 2845	2.8100
2846	2.8100 2847	2.8100 2848	2.8100 2849	1.0000 2850	0.3500
2851	0.2000 2852	0.2000 2853	2.0000 2854	3.5000 2855	1.5000
2856	1.5000 2857	4.0000 2858	1.5000 2859	1.5000 2860	1.5000
2861	1.5000 2862	1.5000 2863	2.0000 2864	4.0000 2865	4.0000
2866	4.0000 2867	2.8100 2868	2.8100 2869	2.8100 2870	2.8100
2871	2.8100 2872	2.8100 2873	2.8100 2874	2.8100 2875	2.8100
2876	2.8100 2877	2.8100 2878	2.8100 2879	4.0000 2880	4.0000
2881	4.0000 2882	4.0000 2883	4.0000 2884	4.0000 2885	4.0000
2886	4.0000 2887	4.0000 2888	4.0000 2889	4.0000 2890	4.0000
2891	2.8100 2892	2.8100 2893	2.8100 2894	4.0000 2895	1.0000
2896	0.3500 2897	0.2000 2898	0.5000 2899	2.0000 2900	1.5000
2901	1.5000 2902	4.0000 2903	1.5000 2904	1.5000 2905	1.5000
2906	1.5000 2907	1.5000 2908	1.5000 2909	4.0000 2910	4.0000
2911	2.8100 2912	2.8100 2913	2.8100 2914	2.8100 2915	2.8100
2916	2.8100 2917	2.8100 2918	2.8100 2919	2.8100 2920	2.8100
2921	2.8100 2922	2.8100 2923	2.8100 2924	4.0000 2925	4.0000
2926	4.0000 2927	4.0000 2928	4.0000 2929	4.0000 2930	4.0000
2931	4.0000 2932	4.0000 2933	4.0000 2934	4.0000 2935	2.8100
2936	2.8100 2937	2.8100 2938	4.0000 2939	4.0000 2940	0.5000
2941	0.3500 2942	0.3500 2943	0.5000 2944	2.0000 2945	3.0000
2946	4.0000 2947	1.5000 2948	1.5000 2949	1.5000 2950	1.5000
2951	1.5000 2952	3.0000 2953	4.0000 2954	2.8100 2955	2.8000

2956	2.8100 2957	2.8100 2958	2.8100 2959	2.8100 2960	2.8100
2961	2.8100 2962	2.8100 2963	2.8100 2964	2.8100 2965	2.8100
2966	2.8100 2967	2.8100 2968	2.8100 2969	4.0000 2970	4.0000
2971	4.0000 2972	4.0000 2973	4.0000 2974	4.0000 2975	4.0000
2976	4.0000 2977	4.0000 2978	4.0000 2979	4.0000 2980	2.8100
2981	2.8100 2982	4.0000 2983	4.0000 2984	3.0000 2985	0.5000
2986	0.5000 2987	0.5000 2988	1.5000 2989	1.5000 2990	4.0000
2991	1.5000 2992	1.5000 2993	1.5000 2994	1.5000 2995	1.5000
2996	1.5000 2997	2.8100 2998	2.8000 2999	2.8100 3000	2.8100
3001	2.8100 3002	2.8100 3003	2.8100 3004	2.8100 3005	2.8100
3006	2.8100 3007	2.8100 3008	2.8100 3009	2.8100 3010	2.8100
3011	2.8100 3012	4.0000 3013	4.0000 3014	4.0000 3015	4.0000
3016	4.0000 3017	4.0000 3018	4.0000 3019	2.8000 3020	4.0000
3021	4.0000 3022	4.0000 3023	4.0000 3024	2.8100 3025	4.0000
3026	4.0000 3027	4.0000 3028	0.5000 3029	0.5000 3030	0.5000
3031	0.5000 3032	1.5000 3033	1.5000 3034	1.5000 3035	1.5000
3036	1.5000 3037	1.5000 3038	1.5000 3039	2.8100 3040	2.8100
3041	2.8100 3042	2.8100 3043	2.8100 3044	2.8100 3045	2.8100
3046	2.8100 3047	2.8100 3048	2.8100 3049	2.8100 3050	2.8100
3051	2.8100 3052	2.8100 3053	4.0000 3054	4.0000 3055	4.0000
3056	4.0000 3057	4.0000 3058	4.0000 3059	4.0000 3060	2.8000
3061	2.8000 3062	4.0000 3063	4.0000 3064	1.5000 3065	2.8100
3066	3.0000 3067	4.0000 3068	3.0000 3069	0.5000 3070	0.5000
3071	0.5000 3072	0.5000 3073	0.5000 3074	1.5000 3075	0.5000
3076	1.5000 3077	1.5000 3078	1.5000 3079	2.8100 3080	2.8100
3081	2.8100 3082	2.8100 3083	2.8100 3084	2.8100 3085	2.8100
3086	2.8100 3087	2.8100 3088	2.8100 3089	2.8100 3090	2.8100
3091	2.8100 3092	3.0000 3093	4.0000 3094	4.0000 3095	4.0000
3096	4.0000 3097	4.0000 3098	4.0000 3099	2.8000 3100	2.8000
3101	4.0000 3102	4.0000 3103	1.5000 3104	1.5000 3105	3.0000
3106	1.5000 3107	0.5000 3108	0.5000 3109	0.5000 3110	0.5000
3111	0.5000 3112	0.5000 3113	1.5000 3114	0.5000 3115	1.5000
3116	1.5000 3117	2.8100 3118	2.8100 3119	2.8100 3120	2.8100
3121	2.8100 3122	2.8100 3123	2.8100 3124	2.8100 3125	2.8100
3126	2.8100 3127	2.8100 3128	2.8100 3129	3.0000 3130	4.0000
3131	4.0000 3132	4.0000 3133	4.0000 3134	4.0000 3135	4.0000
3136	0.5000 3137	0.5000 3138	2.8000 3139	4.0000 3140	1.5000
3141	1.5000 3142	1.5000 3143	1.5000 3144	0.5000 3145	0.5000
3146	0.5000 3147	0.5000 3148	0.5000 3149	0.5000 3150	0.5000
3151	0.5000 3152	0.5000 3153	2.8100 3154	2.8100 3155	2.8100
3156	2.8100 3157	2.8100 3158	2.8100 3159	2.8100 3160	2.8100
3161	2.8100 3162	2.8100 3163	2.8100 3164	1.5000 3165	0.5000
3166	0.5000 3167	0.5000 3168	0.5000 3169	0.5000 3170	0.5000
3171	0.5000 3172	0.5000 3173	0.5000 3174	0.5000 3175	1.0000
3176	1.5000 3177	1.5000 3178	0.5000 3179	0.5000 3180	0.5000
3181	0.5000 3182	0.5000 3183	0.5000 3184	0.5000 3185	0.5000
3186	0.5000 3187	1.5000 3188	1.5000 3189	1.5000 3190	2.8100
3191	1.5000 3192	2.8100 3193	2.8100 3194	2.8100 3195	2.8100
3196	2.8100 3197	0.5000 3198	0.5000 3199	1.5000 3200	1.5000
3201	1.5000 3202	1.5000 3203	0.5000 3204	0.5000 3205	0.5000
3206	0.5000 3207	0.5000 3208	1.0000 3209	0.5000 3210	0.5000
3211	0.5000 3212	0.5000 3213	0.5000 3214	0.5000 3215	0.5000
3216	0.5000 3217	0.5000 3218	1.0000 3219	1.0000 3220	1.0000
3221	1.5000 3222	1.0000 3223	2.8100 3224	1.5000 3225	1.5000
3226	2.8100 3227	1.5000 3228	0.5000 3229	0.5000 3230	1.5000
3231	1.5000 3232	1.5000 3233	1.5000 3234	1.5000 3235	0.5000
3236	0.5000 3237	0.5000 3238	0.5000 3239	0.5000 3240	0.5000
3241	0.5000 3242	0.5000 3243	0.5000 3244	0.5000 3245	0.5000
3246	0.5000 3247	1.5000 3248	5.0000 3249	3.0000 3250	2.8100
3251	5.0000 3252	1.5000 3253	3.0000 3254	1.5000 3255	1.5000
3256	1.5000 3257	0.5000 3258	0.5000 3259	0.5000 3260	0.5000
3261	0.5000 3262	1.5000 3263	2.8100 3264	1.5000 3265	1.5000
3266	1.5000 3267	0.5000 3268	0.5000 3269	0.5000 3270	0.5000
3271	0.5000 3272	0.5000 3273	0.5000 3274	3.0000 3275	3.0000
3276	3.0000 3277	5.0000 3278	3.0000 3279	3.0000 3280	2.8100
3281	3.0000 3282	1.5000 3283	3.0000 3284	0.5000 3285	0.5000
3286	0.5000 3287	0.5000 3288	1.5000 3289	1.5000 3290	1.5000
3291	1.5000 3292	1.5000 3293	0.5000 3294	0.5000 3295	0.5000
3296	0.5000 3297	0.5000 3298	0.5000 3299	3.0000 3300	3.0000
3301	3.0000 3302	3.0000 3303	3.0000 3304	3.0000 3305	3.0000
3306	3.0000 3307	3.0000 3308	0.5000 3309	0.5000 3310	0.5000
3311	1.5000 3312	1.5000 3313	1.5000 3314	1.5000 3315	0.5000
3316	0.5000 3317	0.5000 3318	0.5000 3319	0.5000 3320	1.5000
3321	3.0000 3322	3.0000 3323	3.0000 3324	3.0000 3325	0.5000
3326	1.5000 3327	1.5000 3328	1.5000 3329	1.5000 3330	1.5000
3331	1.5000 3332	1.5000 3333	1.5000 3334	1.5000 3335	1.5000
3336	3.0000 3337	3.0000 3338	1.5000 3339	1.5000 3340	1.5000
3341	1.5000 3342	1.5000 3343	1.5000 3344	1.5000 3345	2.8100
3346	3.0000 3347	3.0000 3348	1.5000 3349	1.5000 3350	1.5000
3351	1.5000 3352	1.5000 3353	1.5000 3354	3.0000 3355	1.5000
3356	1.5000 3357	1.5000 3358	1.5000 3359	1.5000	

STORAGE COEFF. ARRAY: INP,SFCT (I2,F10.0); NODE, STORAGE (5(I5,F10.0))
1 1.000000

1	0.25	2	0.25	3	0.25	4	0.25	5	0.25
6	0.25	7	0.25	8	0.25	9	0.25	10	0.25
11	0.25	12	0.25	13	0.25	14	0.25	15	0.25
16	0.25	17	0.25	18	0.25	19	0.25	20	0.25
21	0.25	22	0.25	23	0.25	24	0.25	25	0.25
26	0.25	27	0.25	28	0.25	29	0.25	30	0.25
31	0.25	32	0.25	33	0.25	34	0.25	35	0.25
36	0.25	37	0.25	38	0.25	39	0.25	40	0.25
41	0.25	42	0.25	43	0.25	44	0.25	45	0.25
46	0.25	47	0.25	48	0.25	49	0.25	50	0.25
51	0.25	52	0.25	53	0.25	54	0.25	55	0.25
56	0.25	57	0.25	58	0.25	59	0.25	60	0.25
61	0.25	62	0.25	63	0.25	64	0.25	65	0.25
66	0.25	67	0.25	68	0.25	69	0.25	70	0.25
71	0.25	72	0.25	73	0.25	74	0.25	75	0.25
76	0.25	77	0.25	78	0.25	79	0.25	80	0.25
81	0.25	82	0.25	83	0.25	84	0.25	85	0.25
86	0.25	87	0.25	88	0.25	89	0.25	90	0.25
91	0.25	92	0.25	93	0.25	94	0.25	95	0.25
96	0.25	97	0.25	98	0.25	99	0.25	100	0.25
101	0.25	102	0.25	103	0.25	104	0.25	105	0.25
106	0.25	107	0.25	108	0.25	109	0.25	110	0.25
111	0.25	112	0.25	113	0.25	114	0.25	115	0.25
116	0.25	117	0.25	118	0.25	119	0.25	120	0.25
121	0.25	122	0.25	123	0.05	124	0.05	125	0.05
126	0.05	127	0.05	128	0.05	129	0.05	130	0.05
131	0.05	132	0.25	133	0.25	134	0.05	135	0.05
136	0.05	137	0.05	138	0.05	139	0.05	140	0.05
141	0.05	142	0.05	143	0.05	144	0.25	145	0.25
146	0.25	147	0.25	148	0.25	149	0.25	150	0.25
151	0.25	152	0.25	153	0.25	154	0.25	155	0.25
156	0.25	157	0.25	158	0.25	159	0.25	160	0.25
161	0.05	162	0.05	163	0.25	164	0.05	165	0.05
166	0.25	167	0.25	168	0.25	169	0.25	170	0.25
171	0.25	172	0.25	173	0.25	174	0.25	175	0.25
176	0.05	177	0.05	178	0.05	179	0.05	180	0.05
181	0.05	182	0.05	183	0.25	184	0.25	185	0.25
186	0.05	187	0.05	188	0.05	189	0.05	190	0.05
191	0.05	192	0.05	193	0.05	194	0.05	195	0.05
196	0.25	197	0.25	198	0.25	199	0.25	200	0.25
201	0.25	202	0.25	203	0.25	204	0.25	205	0.25
206	0.05	207	0.25	208	0.25	209	0.25	210	0.25
211	0.25	212	0.25	213	0.05	214	0.05	215	0.05
216	0.05	217	0.05	218	0.05	219	0.25	220	0.25
221	0.25	222	0.25	223	0.25	224	0.25	225	0.25
226	0.25	227	0.25	228	0.05	229	0.05	230	0.05
231	0.05	232	0.05	233	0.05	234	0.05	235	0.05
236	0.05	237	0.05	238	0.05	239	0.05	240	0.05
241	0.05	242	0.05	243	0.05	244	0.05	245	0.05
246	0.25	247	0.05	248	0.25	249	0.25	250	0.25
251	0.25	252	0.25	253	0.05	254	0.25	255	0.25
256	0.25	257	0.25	258	0.05	259	0.05	260	0.05
261	0.25	262	0.05	263	0.05	264	0.05	265	0.05
266	0.05	267	0.05	268	0.05	269	0.05	270	0.05
271	0.05	272	0.25	273	0.25	274	0.25	275	0.25
276	0.25	277	0.25	278	0.25	279	0.05	280	0.05
281	0.05	282	0.05	283	0.05	284	0.25	285	0.25
286	0.05	287	0.05	288	0.05	289	0.05	290	0.05
291	0.05	292	0.05	293	0.05	294	0.05	295	0.05
296	0.05	297	0.25	298	0.05	299	0.05	300	0.05
301	0.25	302	0.25	303	0.25	304	0.05	305	0.05
306	0.05	307	0.05	308	0.05	309	0.25	310	0.25
311	0.05	312	0.05	313	0.05	314	0.05	315	0.05
316	0.05	317	0.05	318	0.05	319	0.05	320	0.05
321	0.05	322	0.05	323	0.05	324	0.25	325	0.25
326	0.25	327	0.25	328	0.25	329	0.25	330	0.25
331	0.25	332	0.05	333	0.05	334	0.05	335	0.05
336	0.05	337	0.05	338	0.05	339	0.05	340	0.05
341	0.05	342	0.05	343	0.05	344	0.05	345	0.05
346	0.05	347	0.05	348	0.25	349	0.25	350	0.25
351	0.25	352	0.25	353	0.25	354	0.25	355	0.25
356	0.05	357	0.05	358	0.05	359	0.05	360	0.05
361	0.25	362	0.25	363	0.05	364	0.05	365	0.05
366	0.05	367	0.05	368	0.05	369	0.05	370	0.05
371	0.05	372	0.05	373	0.05	374	0.05	375	0.05
376	0.25	377	0.25	378	0.25	379	0.25	380	0.25
381	0.25	382	0.25	383	0.05	384	0.05	385	0.05
386	0.05	387	0.05	388	0.05	389	0.05	390	0.05
391	0.05	392	0.05	393	0.05	394	0.05	395	0.05
396	0.05	397	0.05	398	0.25	399	0.25	400	0.25
401	0.05	402	0.25	403	0.25	404	0.25	405	0.25
406	0.25	407	0.05	408	0.05	409	0.05	410	0.05
411	0.05	412	0.05	413	0.05	414	0.25	415	0.25

416	0.25	417	0.05	418	0.05	419	0.05	420	0.05
421	0.05	422	0.05	423	0.05	424	0.05	425	0.05
426	0.05	427	0.25	428	0.25	429	0.25	430	0.25
431	0.25	432	0.25	433	0.05	434	0.05	435	0.05
436	0.05	437	0.05	438	0.05	439	0.05	440	0.05
441	0.05	442	0.05	443	0.05	444	0.05	445	0.05
446	0.05	447	0.05	448	0.05	449	0.25	450	0.25
451	0.25	452	0.05	453	0.05	454	0.25	455	0.25
456	0.05	457	0.05	458	0.05	459	0.05	460	0.05
461	0.05	462	0.05	463	0.05	464	0.05	465	0.05
466	0.25	467	0.25	468	0.25	469	0.05	470	0.05
471	0.05	472	0.05	473	0.05	474	0.05	475	0.05
476	0.05	477	0.25	478	0.25	479	0.25	480	0.25
481	0.25	482	0.25	483	0.25	484	0.05	485	0.05
486	0.05	487	0.05	488	0.05	489	0.05	490	0.05
491	0.05	492	0.05	493	0.05	494	0.05	495	0.05
496	0.05	497	0.05	498	0.05	499	0.05	500	0.05
501	0.25	502	0.25	503	0.05	504	0.05	505	0.05
506	0.25	507	0.25	508	0.25	509	0.05	510	0.05
511	0.05	512	0.05	513	0.05	514	0.05	515	0.05
516	0.05	517	0.05	518	0.25	519	0.25	520	0.25
521	0.05	522	0.05	523	0.05	524	0.05	525	0.05
526	0.05	527	0.25	528	0.25	529	0.25	530	0.25
531	0.25	532	0.25	533	0.25	534	0.25	535	0.25
536	0.05	537	0.05	538	0.05	539	0.05	540	0.05
541	0.05	542	0.05	543	0.05	544	0.05	545	0.05
546	0.05	547	0.05	548	0.05	549	0.05	550	0.05
551	0.05	552	0.05	553	0.05	554	0.05	555	0.05
556	0.05	557	0.25	558	0.25	559	0.25	560	0.25
561	0.25	562	0.05	563	0.05	564	0.05	565	0.05
566	0.05	567	0.05	568	0.05	569	0.05	570	0.05
571	0.25	572	0.05	573	0.05	574	0.05	575	0.05
576	0.05	577	0.25	578	0.25	579	0.25	580	0.25
581	0.25	582	0.25	583	0.25	584	0.25	585	0.25
586	0.25	587	0.05	588	0.05	589	0.05	590	0.05
591	0.05	592	0.05	593	0.05	594	0.05	595	0.05
596	0.05	597	0.05	598	0.05	599	0.05	600	0.05
601	0.05	602	0.25	603	0.25	604	0.05	605	0.05
606	0.05	607	0.05	608	0.05	609	0.25	610	0.25
611	0.25	612	0.25	613	0.25	614	0.25	615	0.25
616	0.05	617	0.05	618	0.05	619	0.05	620	0.05
621	0.25	622	0.25	623	0.25	624	0.25	625	0.25
626	0.05	627	0.05	628	0.25	629	0.25	630	0.25
631	0.25	632	0.25	633	0.25	634	0.25	635	0.25
636	0.25	637	0.25	638	0.25	639	0.05	640	0.05
641	0.05	642	0.05	643	0.05	644	0.05	645	0.05
646	0.05	647	0.05	648	0.05	649	0.05	650	0.05
651	0.05	652	0.05	653	0.25	654	0.25	655	0.25
656	0.05	657	0.05	658	0.05	659	0.05	660	0.05
661	0.25	662	0.25	663	0.25	664	0.25	665	0.25
666	0.25	667	0.25	668	0.05	669	0.05	670	0.05
671	0.05	672	0.05	673	0.25	674	0.25	675	0.25
676	0.25	677	0.05	678	0.05	679	0.25	680	0.25
681	0.25	682	0.25	683	0.25	684	0.25	685	0.25
686	0.25	687	0.25	688	0.25	689	0.25	690	0.25
691	0.05	692	0.05	693	0.05	694	0.05	695	0.05
696	0.05	697	0.05	698	0.05	699	0.05	700	0.05
701	0.05	702	0.05	703	0.05	704	0.05	705	0.05
706	0.25	707	0.05	708	0.05	709	0.05	710	0.05
711	0.05	712	0.05	713	0.25	714	0.25	715	0.25
716	0.25	717	0.25	718	0.25	719	0.25	720	0.25
721	0.05	722	0.05	723	0.05	724	0.05	725	0.05
726	0.25	727	0.25	728	0.05	729	0.05	730	0.05
731	0.25	732	0.25	733	0.25	734	0.25	735	0.25
736	0.05	737	0.05	738	0.25	739	0.25	740	0.25
741	0.05	742	0.05	743	0.05	744	0.05	745	0.05
746	0.05	747	0.05	748	0.05	749	0.05	750	0.05
751	0.05	752	0.05	753	0.05	754	0.05	755	0.05
756	0.25	757	0.25	758	0.05	759	0.05	760	0.05
761	0.05	762	0.05	763	0.05	764	0.05	765	0.05
766	0.25	767	0.25	768	0.25	769	0.25	770	0.25
771	0.25	772	0.25	773	0.25	774	0.05	775	0.05
776	0.05	777	0.05	778	0.25	779	0.25	780	0.25
781	0.05	782	0.25	783	0.25	784	0.25	785	0.25
786	0.25	787	0.05	788	0.05	789	0.25	790	0.25
791	0.25	792	0.05	793	0.25	794	0.05	795	0.05
796	0.05	797	0.05	798	0.05	799	0.05	800	0.05
801	0.05	802	0.05	803	0.05	804	0.05	805	0.05
806	0.05	807	0.05	808	0.25	809	0.05	810	0.05
811	0.05	812	0.05	813	0.05	814	0.05	815	0.05
816	0.25	817	0.25	818	0.25	819	0.25	820	0.25
821	0.25	822	0.25	823	0.25	824	0.25	825	0.25
826	0.05	827	0.05	828	0.05	829	0.05	830	0.05

831	0.25	832	0.05	833	0.25	834	0.25	835	0.25
836	0.25	837	0.25	838	0.25	839	0.05	840	0.05
841	0.25	842	0.25	843	0.25	844	0.05	845	0.05
846	0.05	847	0.05	848	0.05	849	0.25	850	0.25
851	0.05	852	0.05	853	0.05	854	0.05	855	0.05
856	0.05	857	0.05	858	0.05	859	0.25	860	0.25
861	0.05	862	0.05	863	0.05	864	0.05	865	0.05
866	0.05	867	0.25	868	0.25	869	0.25	870	0.25
871	0.25	872	0.25	873	0.25	874	0.25	875	0.25
876	0.25	877	0.25	878	0.25	879	0.25	880	0.25
881	0.05	882	0.25	883	0.25	884	0.25	885	0.25
886	0.25	887	0.25	888	0.25	889	0.25	890	0.25
891	0.05	892	0.25	893	0.25	894	0.25	895	0.25
896	0.05	897	0.05	898	0.05	899	0.25	900	0.25
901	0.05	902	0.05	903	0.05	904	0.05	905	0.05
906	0.05	907	0.05	908	0.25	909	0.25	910	0.25
911	0.25	912	0.05	913	0.05	914	0.05	915	0.05
916	0.05	917	0.05	918	0.25	919	0.25	920	0.25
921	0.25	922	0.25	923	0.25	924	0.25	925	0.25
926	0.25	927	0.25	928	0.25	929	0.25	930	0.25
931	0.25	932	0.25	933	0.05	934	0.25	935	0.25
936	0.25	937	0.25	938	0.25	939	0.25	940	0.25
941	0.25	942	0.25	943	0.25	944	0.25	945	0.25
946	0.25	947	0.05	948	0.05	949	0.05	950	0.05
951	0.25	952	0.25	953	0.05	954	0.05	955	0.05
956	0.05	957	0.05	958	0.05	959	0.05	960	0.05
961	0.25	962	0.25	963	0.25	964	0.25	965	0.25
966	0.05	967	0.05	968	0.05	969	0.25	970	0.25
971	0.25	972	0.25	973	0.25	974	0.25	975	0.25
976	0.25	977	0.25	978	0.25	979	0.25	980	0.25
981	0.25	982	0.25	983	0.25	984	0.25	985	0.25
986	0.25	987	0.25	988	0.25	989	0.25	990	0.25
991	0.25	992	0.25	993	0.25	994	0.25	995	0.25
996	0.25	997	0.25	998	0.25	999	0.05	1000	0.05
1001	0.25	1002	0.25	1003	0.05	1004	0.05	1005	0.05
1006	0.05	1007	0.05	1008	0.05	1009	0.05	1010	0.05
1011	0.25	1012	0.25	1013	0.25	1014	0.25	1015	0.25
1016	0.25	1017	0.25	1018	0.05	1019	0.05	1020	0.05
1021	0.25	1022	0.25	1023	0.25	1024	0.25	1025	0.25
1026	0.25	1027	0.25	1028	0.25	1029	0.25	1030	0.25
1031	0.25	1032	0.25	1033	0.25	1034	0.25	1035	0.25
1036	0.25	1037	0.25	1038	0.25	1039	0.25	1040	0.25
1041	0.25	1042	0.25	1043	0.25	1044	0.25	1045	0.25
1046	0.25	1047	0.25	1048	0.25	1049	0.25	1050	0.25
1051	0.25	1052	0.25	1053	0.25	1054	0.05	1055	0.05
1056	0.05	1057	0.05	1058	0.05	1059	0.05	1060	0.05
1061	0.05	1062	0.25	1063	0.05	1064	0.05	1065	0.05
1066	0.25	1067	0.25	1068	0.25	1069	0.25	1070	0.25
1071	0.25	1072	0.25	1073	0.25	1074	0.25	1075	0.25
1076	0.25	1077	0.25	1078	0.25	1079	0.25	1080	0.25
1081	0.25	1082	0.25	1083	0.25	1084	0.25	1085	0.25
1086	0.25	1087	0.25	1088	0.25	1089	0.25	1090	0.25
1091	0.25	1092	0.05	1093	0.25	1094	0.25	1095	0.25
1096	0.25	1097	0.25	1098	0.25	1099	0.25	1100	0.25
1101	0.25	1102	0.25	1103	0.25	1104	0.05	1105	0.05
1106	0.05	1107	0.05	1108	0.05	1109	0.05	1110	0.05
1111	0.05	1112	0.05	1113	0.25	1114	0.05	1115	0.05
1116	0.05	1117	0.05	1118	0.05	1119	0.25	1120	0.25
1121	0.25	1122	0.25	1123	0.25	1124	0.25	1125	0.25
1126	0.25	1127	0.25	1128	0.25	1129	0.25	1130	0.25
1131	0.25	1132	0.25	1133	0.25	1134	0.25	1135	0.25
1136	0.25	1137	0.25	1138	0.25	1139	0.25	1140	0.25
1141	0.25	1142	0.25	1143	0.25	1144	0.25	1145	0.25
1146	0.25	1147	0.25	1148	0.25	1149	0.25	1150	0.25
1151	0.25	1152	0.25	1153	0.25	1154	0.25	1155	0.25
1156	0.05	1157	0.05	1158	0.05	1159	0.05	1160	0.05
1161	0.05	1162	0.05	1163	0.05	1164	0.05	1165	0.05
1166	0.25	1167	0.05	1168	0.05	1169	0.25	1170	0.25
1171	0.05	1172	0.25	1173	0.25	1174	0.25	1175	0.25
1176	0.05	1177	0.25	1178	0.25	1179	0.25	1180	0.25
1181	0.25	1182	0.25	1183	0.25	1184	0.25	1185	0.25
1186	0.25	1187	0.25	1188	0.25	1189	0.25	1190	0.25
1191	0.25	1192	0.25	1193	0.25	1194	0.25	1195	0.25
1196	0.25	1197	0.25	1198	0.25	1199	0.25	1200	0.25
1201	0.25	1202	0.25	1203	0.25	1204	0.25	1205	0.25
1206	0.25	1207	0.25	1208	0.05	1209	0.05	1210	0.05
1211	0.05	1212	0.05	1213	0.05	1214	0.05	1215	0.05
1216	0.05	1217	0.05	1218	0.05	1219	0.05	1220	0.05
1221	0.05	1222	0.05	1223	0.25	1224	0.25	1225	0.25
1226	0.05	1227	0.05	1228	0.05	1229	0.25	1230	0.25
1231	0.25	1232	0.25	1233	0.25	1234	0.25	1235	0.25
1236	0.25	1237	0.25	1238	0.25	1239	0.25	1240	0.25
1241	0.25	1242	0.25	1243	0.25	1244	0.25	1245	0.25

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1661	0.05 1662	0.05 1663	0.05 1664	0.05 1665	0.05
1666	0.05 1667	0.05 1668	0.25 1669	0.25 1670	0.25
1671	0.25 1672	0.25 1673	0.25 1674	0.25 1675	0.25
1676	0.25 1677	0.25 1678	0.25 1679	0.25 1680	0.25
1681	0.05 1682	0.05 1683	0.05 1684	0.05 1685	0.05
1686	0.05 1687	0.05 1688	0.05 1689	0.05 1690	0.05
1691	0.05 1692	0.05 1693	0.05 1694	0.05 1695	0.05
1696	0.05 1697	0.05 1698	0.05 1699	0.25 1700	0.25
1701	0.25 1702	0.25 1703	0.25 1704	0.25 1705	0.25
1706	0.25 1707	0.25 1708	0.25 1709	0.25 1710	0.25
1711	0.05 1712	0.05 1713	0.05 1714	0.05 1715	0.05
1716	0.05 1717	0.05 1718	0.25 1719	0.25 1720	0.25
1721	0.25 1722	0.25 1723	0.25 1724	0.25 1725	0.25
1726	0.25 1727	0.25 1728	0.25 1729	0.25 1730	0.25
1731	0.25 1732	0.25 1733	0.25 1734	0.25 1735	0.25
1736	0.05 1737	0.05 1738	0.05 1739	0.05 1740	0.05
1741	0.05 1742	0.05 1743	0.05 1744	0.05 1745	0.05
1746	0.05 1747	0.05 1748	0.05 1749	0.05 1750	0.05
1751	0.05 1752	0.25 1753	0.25 1754	0.25 1755	0.25
1756	0.25 1757	0.25 1758	0.25 1759	0.25 1760	0.25
1761	0.25 1762	0.25 1763	0.25 1764	0.25 1765	0.25
1766	0.05 1767	0.05 1768	0.05 1769	0.05 1770	0.05
1771	0.25 1772	0.25 1773	0.25 1774	0.25 1775	0.25
1776	0.05 1777	0.25 1778	0.25 1779	0.25 1780	0.25
1781	0.25 1782	0.25 1783	0.25 1784	0.25 1785	0.25
1786	0.25 1787	0.25 1788	0.25 1789	0.25 1790	0.25
1791	0.25 1792	0.25 1793	0.05 1794	0.05 1795	0.05
1796	0.05 1797	0.05 1798	0.05 1799	0.05 1800	0.05
1801	0.05 1802	0.05 1803	0.05 1804	0.05 1805	0.05
1806	0.05 1807	0.05 1808	0.05 1809	0.25 1810	0.25
1811	0.25 1812	0.25 1813	0.25 1814	0.25 1815	0.25
1816	0.25 1817	0.25 1818	0.25 1819	0.25 1820	0.25
1821	0.25 1822	0.05 1823	0.05 1824	0.05 1825	0.05
1826	0.05 1827	0.25 1828	0.25 1829	0.25 1830	0.25
1831	0.25 1832	0.25 1833	0.05 1834	0.25 1835	0.25
1836	0.25 1837	0.25 1838	0.25 1839	0.25 1840	0.25
1841	0.25 1842	0.25 1843	0.25 1844	0.25 1845	0.25
1846	0.25 1847	0.25 1848	0.25 1849	0.05 1850	0.05
1851	0.05 1852	0.05 1853	0.05 1854	0.05 1855	0.05
1856	0.05 1857	0.05 1858	0.05 1859	0.05 1860	0.05
1861	0.05 1862	0.05 1863	0.05 1864	0.25 1865	0.25
1866	0.25 1867	0.25 1868	0.25 1869	0.25 1870	0.25
1871	0.25 1872	0.25 1873	0.25 1874	0.25 1875	0.25
1876	0.25 1877	0.25 1878	0.05 1879	0.05 1880	0.05
1881	0.05 1882	0.25 1883	0.25 1884	0.25 1885	0.25
1886	0.25 1887	0.25 1888	0.25 1889	0.05 1890	0.05
1891	0.25 1892	0.05 1893	0.25 1894	0.25 1895	0.25
1896	0.25 1897	0.25 1898	0.25 1899	0.25 1900	0.25
1901	0.25 1902	0.25 1903	0.25 1904	0.05 1905	0.05
1906	0.05 1907	0.05 1908	0.05 1909	0.05 1910	0.05
1911	0.05 1912	0.05 1913	0.05 1914	0.05 1915	0.05
1916	0.05 1917	0.05 1918	0.05 1919	0.25 1920	0.25
1921	0.25 1922	0.25 1923	0.25 1924	0.25 1925	0.25
1926	0.05 1927	0.05 1928	0.05 1929	0.05 1930	0.05
1931	0.05 1932	0.05 1933	0.05 1934	0.05 1935	0.05
1936	0.25 1937	0.25 1938	0.25 1939	0.25 1940	0.25
1941	0.25 1942	0.25 1943	0.25 1944	0.05 1945	0.05
1946	0.05 1947	0.25 1948	0.25 1949	0.25 1950	0.25
1951	0.25 1952	0.25 1953	0.25 1954	0.25 1955	0.25
1956	0.25 1957	0.25 1958	0.05 1959	0.05 1960	0.25
1961	0.05 1962	0.05 1963	0.05 1964	0.05 1965	0.05
1966	0.05 1967	0.05 1968	0.05 1969	0.05 1970	0.05
1971	0.05 1972	0.05 1973	0.05 1974	0.25 1975	0.25
1976	0.25 1977	0.25 1978	0.25 1979	0.25 1980	0.25
1981	0.25 1982	0.05 1983	0.05 1984	0.05 1985	0.05
1986	0.05 1987	0.05 1988	0.05 1989	0.05 1990	0.05
1991	0.25 1992	0.25 1993	0.25 1994	0.25 1995	0.25
1996	0.25 1997	0.25 1998	0.25 1999	0.25 2000	0.25
2001	0.05 2002	0.25 2003	0.25 2004	0.25 2005	0.25
2006	0.25 2007	0.25 2008	0.25 2009	0.25 2010	0.25
2011	0.05 2012	0.25 2013	0.05 2014	0.05 2015	0.05
2016	0.05 2017	0.05 2018	0.05 2019	0.05 2020	0.05
2021	0.05 2022	0.05 2023	0.05 2024	0.05 2025	0.05
2026	0.05 2027	0.05 2028	0.05 2029	0.05 2030	0.05
2031	0.25 2032	0.25 2033	0.25 2034	0.25 2035	0.25
2036	0.25 2037	0.25 2038	0.25 2039	0.05 2040	0.05
2041	0.05 2042	0.05 2043	0.05 2044	0.05 2045	0.05
2046	0.05 2047	0.25 2048	0.25 2049	0.25 2050	0.25
2051	0.25 2052	0.25 2053	0.25 2054	0.25 2055	0.25
2056	0.05 2057	0.05 2058	0.05 2059	0.25 2060	0.25
2061	0.25 2062	0.25 2063	0.25 2064	0.25 2065	0.25
2066	0.05 2067	0.05 2068	0.25 2069	0.05 2070	0.05
2071	0.05 2072	0.05 2073	0.05 2074	0.05 2075	0.25

2076	0.05 2077	0.05 2078	0.05 2079	0.05 2080	0.05
2081	0.05 2082	0.05 2083	0.05 2084	0.05 2085	0.05
2086	0.05 2087	0.05 2088	0.05 2089	0.25 2090	0.25
2091	0.25 2092	0.25 2093	0.25 2094	0.25 2095	0.25
2096	0.25 2097	0.05 2098	0.05 2099	0.05 2100	0.05
2101	0.05 2102	0.05 2103	0.05 2104	0.05 2105	0.05
2106	0.25 2107	0.25 2108	0.25 2109	0.25 2110	0.25
2111	0.25 2112	0.25 2113	0.05 2114	0.05 2115	0.05
2116	0.25 2117	0.25 2118	0.25 2119	0.25 2120	0.25
2121	0.05 2122	0.05 2123	0.05 2124	0.05 2125	0.05
2126	0.05 2127	0.05 2128	0.05 2129	0.05 2130	0.05
2131	0.05 2132	0.05 2133	0.25 2134	0.05 2135	0.05
2136	0.05 2137	0.25 2138	0.25 2139	0.25 2140	0.25
2141	0.25 2142	0.05 2143	0.05 2144	0.05 2145	0.05
2146	0.05 2147	0.05 2148	0.05 2149	0.05 2150	0.05
2151	0.05 2152	0.05 2153	0.25 2154	0.05 2155	0.05
2156	0.25 2157	0.25 2158	0.25 2159	0.25 2160	0.25
2161	0.25 2162	0.25 2163	0.25 2164	0.05 2165	0.05
2166	0.05 2167	0.05 2168	0.05 2169	0.05 2170	0.25
2171	0.05 2172	0.05 2173	0.05 2174	0.05 2175	0.05
2176	0.05 2177	0.05 2178	0.05 2179	0.05 2180	0.05
2181	0.05 2182	0.25 2183	0.25 2184	0.05 2185	0.05
2186	0.05 2187	0.05 2188	0.05 2189	0.05 2190	0.05
2191	0.05 2192	0.05 2193	0.05 2194	0.05 2195	0.05
2196	0.05 2197	0.05 2198	0.05 2199	0.05 2200	0.25
2201	0.05 2202	0.25 2203	0.05 2204	0.25 2205	0.25
2206	0.05 2207	0.05 2208	0.05 2209	0.05 2210	0.05
2211	0.05 2212	0.05 2213	0.05 2214	0.05 2215	0.05
2216	0.05 2217	0.05 2218	0.05 2219	0.05 2220	0.05
2221	0.25 2222	0.25 2223	0.25 2224	0.25 2225	0.25
2226	0.25 2227	0.25 2228	0.25 2229	0.25 2230	0.25
2231	0.05 2232	0.05 2233	0.05 2234	0.05 2235	0.05
2236	0.05 2237	0.05 2238	0.05 2239	0.05 2240	0.05
2241	0.05 2242	0.05 2243	0.05 2244	0.05 2245	0.05
2246	0.05 2247	0.05 2248	0.05 2249	0.05 2250	0.05
2251	0.05 2252	0.05 2253	0.05 2254	0.05 2255	0.05
2256	0.05 2257	0.05 2258	0.05 2259	0.05 2260	0.05
2261	0.05 2262	0.05 2263	0.05 2264	0.05 2265	0.05
2266	0.05 2267	0.05 2268	0.05 2269	0.05 2270	0.05
2271	0.05 2272	0.05 2273	0.05 2274	0.05 2275	0.25
2276	0.05 2277	0.05 2278	0.05 2279	0.05 2280	0.05
2281	0.05 2282	0.05 2283	0.05 2284	0.05 2285	0.05
2286	0.25 2287	0.25 2288	0.25 2289	0.25 2290	0.25
2291	0.25 2292	0.25 2293	0.25 2294	0.25 2295	0.25
2296	0.25 2297	0.05 2298	0.05 2299	0.05 2300	0.05
2301	0.05 2302	0.05 2303	0.05 2304	0.05 2305	0.05
2306	0.05 2307	0.05 2308	0.05 2309	0.05 2310	0.05
2311	0.05 2312	0.05 2313	0.05 2314	0.05 2315	0.05
2316	0.05 2317	0.05 2318	0.05 2319	0.05 2320	0.05
2321	0.05 2322	0.05 2323	0.05 2324	0.05 2325	0.05
2326	0.05 2327	0.05 2328	0.05 2329	0.05 2330	0.05
2331	0.05 2332	0.05 2333	0.05 2334	0.05 2335	0.05
2336	0.05 2337	0.05 2338	0.05 2339	0.05 2340	0.05
2341	0.05 2342	0.05 2343	0.05 2344	0.05 2345	0.05
2346	0.05 2347	0.05 2348	0.05 2349	0.05 2350	0.05
2351	0.05 2352	0.25 2353	0.25 2354	0.25 2355	0.25
2356	0.25 2357	0.25 2358	0.25 2359	0.25 2360	0.25
2361	0.25 2362	0.25 2363	0.05 2364	0.05 2365	0.05
2366	0.05 2367	0.05 2368	0.05 2369	0.05 2370	0.05
2371	0.05 2372	0.05 2373	0.05 2374	0.05 2375	0.05
2376	0.05 2377	0.05 2378	0.05 2379	0.05 2380	0.05
2381	0.05 2382	0.05 2383	0.05 2384	0.05 2385	0.05
2386	0.05 2387	0.05 2388	0.05 2389	0.05 2390	0.05
2391	0.05 2392	0.05 2393	0.05 2394	0.05 2395	0.05
2396	0.05 2397	0.05 2398	0.05 2399	0.05 2400	0.05
2401	0.05 2402	0.05 2403	0.05 2404	0.05 2405	0.05
2406	0.05 2407	0.05 2408	0.05 2409	0.05 2410	0.05
2411	0.05 2412	0.05 2413	0.05 2414	0.05 2415	0.05
2416	0.05 2417	0.25 2418	0.25 2419	0.25 2420	0.25
2421	0.25 2422	0.25 2423	0.25 2424	0.25 2425	0.25
2426	0.25 2427	0.25 2428	0.05 2429	0.05 2430	0.25
2431	0.05 2432	0.05 2433	0.05 2434	0.05 2435	0.05
2436	0.05 2437	0.05 2438	0.05 2439	0.05 2440	0.05
2441	0.05 2442	0.05 2443	0.05 2444	0.05 2445	0.05
2446	0.05 2447	0.05 2448	0.05 2449	0.05 2450	0.05
2451	0.05 2452	0.05 2453	0.05 2454	0.05 2455	0.05
2456	0.05 2457	0.05 2458	0.05 2459	0.05 2460	0.05
2461	0.05 2462	0.05 2463	0.05 2464	0.05 2465	0.05
2466	0.05 2467	0.05 2468	0.05 2469	0.05 2470	0.05
2471	0.05 2472	0.05 2473	0.05 2474	0.05 2475	0.05
2476	0.05 2477	0.05 2478	0.25 2479	0.25 2480	0.25
2481	0.25 2482	0.25 2483	0.25 2484	0.25 2485	0.25
2486	0.25 2487	0.25 2488	0.25 2489	0.05 2490	0.25

2491	0.05 2492	0.05 2493	0.05 2494	0.05 2495	0.05
2496	0.05 2497	0.05 2498	0.05 2499	0.05 2500	0.05
2501	0.05 2502	0.05 2503	0.05 2504	0.05 2505	0.05
2506	0.05 2507	0.05 2508	0.05 2509	0.05 2510	0.05
2511	0.05 2512	0.05 2513	0.05 2514	0.05 2515	0.05
2516	0.05 2517	0.05 2518	0.05 2519	0.05 2520	0.05
2521	0.05 2522	0.05 2523	0.05 2524	0.05 2525	0.05
2526	0.05 2527	0.05 2528	0.05 2529	0.05 2530	0.05
2531	0.05 2532	0.05 2533	0.05 2534	0.05 2535	0.05
2536	0.05 2537	0.25 2538	0.25 2539	0.25 2540	0.25
2541	0.25 2542	0.25 2543	0.25 2544	0.25 2545	0.25
2546	0.25 2547	0.05 2548	0.05 2549	0.05 2550	0.05
2551	0.05 2552	0.05 2553	0.05 2554	0.05 2555	0.05
2556	0.05 2557	0.05 2558	0.05 2559	0.05 2560	0.05
2561	0.05 2562	0.05 2563	0.05 2564	0.05 2565	0.05
2566	0.05 2567	0.05 2568	0.05 2569	0.05 2570	0.05
2571	0.05 2572	0.05 2573	0.05 2574	0.05 2575	0.05
2576	0.05 2577	0.05 2578	0.05 2579	0.05 2580	0.05
2581	0.05 2582	0.05 2583	0.05 2584	0.05 2585	0.05
2586	0.05 2587	0.05 2588	0.05 2589	0.05 2590	0.05
2591	0.05 2592	0.05 2593	0.05 2594	0.25 2595	0.25
2596	0.25 2597	0.25 2598	0.25 2599	0.25 2600	0.25
2601	0.25 2602	0.25 2603	0.25 2604	0.05 2605	0.25
2606	0.05 2607	0.05 2608	0.05 2609	0.05 2610	0.05
2611	0.05 2612	0.05 2613	0.05 2614	0.05 2615	0.05
2616	0.05 2617	0.05 2618	0.05 2619	0.05 2620	0.05
2621	0.05 2622	0.05 2623	0.05 2624	0.05 2625	0.05
2626	0.05 2627	0.05 2628	0.05 2629	0.05 2630	0.05
2631	0.05 2632	0.05 2633	0.05 2634	0.05 2635	0.05
2636	0.05 2637	0.05 2638	0.05 2639	0.05 2640	0.05
2641	0.05 2642	0.05 2643	0.05 2644	0.05 2645	0.05
2646	0.05 2647	0.05 2648	0.25 2649	0.25 2650	0.25
2651	0.25 2652	0.25 2653	0.25 2654	0.25 2655	0.25
2656	0.25 2657	0.25 2658	0.05 2659	0.05 2660	0.05
2661	0.05 2662	0.05 2663	0.05 2664	0.05 2665	0.05
2666	0.05 2667	0.05 2668	0.05 2669	0.05 2670	0.05
2671	0.05 2672	0.05 2673	0.05 2674	0.05 2675	0.05
2676	0.05 2677	0.05 2678	0.05 2679	0.05 2680	0.05
2681	0.05 2682	0.05 2683	0.05 2684	0.05 2685	0.05
2686	0.05 2687	0.05 2688	0.05 2689	0.05 2690	0.25
2691	0.05 2692	0.05 2693	0.05 2694	0.05 2695	0.05
2696	0.05 2697	0.05 2698	0.25 2699	0.25 2700	0.25
2701	0.25 2702	0.25 2703	0.25 2704	0.25 2705	0.25
2706	0.25 2707	0.25 2708	0.05 2709	0.05 2710	0.05
2711	0.05 2712	0.05 2713	0.05 2714	0.05 2715	0.05
2716	0.05 2717	0.05 2718	0.05 2719	0.05 2720	0.05
2721	0.05 2722	0.05 2723	0.05 2724	0.05 2725	0.05
2726	0.05 2727	0.05 2728	0.05 2729	0.05 2730	0.05
2731	0.05 2732	0.05 2733	0.05 2734	0.05 2735	0.05
2736	0.05 2737	0.05 2738	0.05 2739	0.05 2740	0.05
2741	0.05 2742	0.05 2743	0.05 2744	0.05 2745	0.05
2746	0.05 2747	0.25 2748	0.25 2749	0.25 2750	0.25
2751	0.25 2752	0.25 2753	0.25 2754	0.25 2755	0.25
2756	0.05 2757	0.05 2758	0.05 2759	0.05 2760	0.05
2761	0.05 2762	0.05 2763	0.05 2764	0.05 2765	0.05
2766	0.05 2767	0.05 2768	0.05 2769	0.05 2770	0.05
2771	0.05 2772	0.05 2773	0.05 2774	0.05 2775	0.05
2776	0.05 2777	0.05 2778	0.05 2779	0.05 2780	0.05
2781	0.05 2782	0.05 2783	0.05 2784	0.05 2785	0.05
2786	0.05 2787	0.05 2788	0.05 2789	0.05 2790	0.05
2791	0.05 2792	0.05 2793	0.05 2794	0.25 2795	0.25
2796	0.25 2797	0.25 2798	0.25 2799	0.25 2800	0.25
2801	0.25 2802	0.05 2803	0.05 2804	0.05 2805	0.05
2806	0.05 2807	0.05 2808	0.05 2809	0.05 2810	0.05
2811	0.05 2812	0.05 2813	0.05 2814	0.05 2815	0.05
2816	0.05 2817	0.05 2818	0.05 2819	0.05 2820	0.05
2821	0.05 2822	0.05 2823	0.05 2824	0.05 2825	0.05
2826	0.05 2827	0.05 2828	0.05 2829	0.05 2830	0.05
2831	0.05 2832	0.05 2833	0.05 2834	0.05 2835	0.05
2836	0.05 2837	0.05 2838	0.05 2839	0.05 2840	0.05
2841	0.25 2842	0.25 2843	0.25 2844	0.25 2845	0.25
2846	0.25 2847	0.25 2848	0.05 2849	0.05 2850	0.05
2851	0.05 2852	0.05 2853	0.05 2854	0.05 2855	0.05
2856	0.05 2857	0.05 2858	0.05 2859	0.05 2860	0.05
2861	0.05 2862	0.05 2863	0.05 2864	0.05 2865	0.05
2866	0.05 2867	0.05 2868	0.05 2869	0.05 2870	0.05
2871	0.05 2872	0.05 2873	0.05 2874	0.05 2875	0.05
2876	0.05 2877	0.05 2878	0.05 2879	0.05 2880	0.05
2881	0.05 2882	0.05 2883	0.05 2884	0.05 2885	0.05
2886	0.05 2887	0.05 2888	0.05 2889	0.05 2890	0.05
2891	0.25 2892	0.25 2893	0.05 2894	0.05 2895	0.05
2896	0.05 2897	0.05 2898	0.05 2899	0.05 2900	0.05
2901	0.05 2902	0.05 2903	0.05 2904	0.05 2905	0.05

2906	0.05 2907	0.05 2908	0.05 2909	0.05 2910	0.05
2911	0.05 2912	0.05 2913	0.05 2914	0.05 2915	0.05
2916	0.05 2917	0.05 2918	0.05 2919	0.05 2920	0.05
2921	0.05 2922	0.05 2923	0.05 2924	0.05 2925	0.05
2926	0.05 2927	0.05 2928	0.05 2929	0.05 2930	0.05
2931	0.05 2932	0.05 2933	0.05 2934	0.05 2935	0.05
2936	0.25 2937	0.05 2938	0.05 2939	0.05 2940	0.05
2941	0.05 2942	0.05 2943	0.05 2944	0.05 2945	0.05
2946	0.05 2947	0.05 2948	0.05 2949	0.05 2950	0.05
2951	0.05 2952	0.05 2953	0.05 2954	0.05 2955	0.05
2956	0.05 2957	0.05 2958	0.05 2959	0.05 2960	0.05
2961	0.05 2962	0.05 2963	0.05 2964	0.05 2965	0.05
2966	0.05 2967	0.05 2968	0.05 2969	0.05 2970	0.05
2971	0.05 2972	0.05 2973	0.05 2974	0.05 2975	0.05
2976	0.05 2977	0.05 2978	0.05 2979	0.05 2980	0.05
2981	0.05 2982	0.05 2983	0.05 2984	0.05 2985	0.05
2986	0.05 2987	0.05 2988	0.05 2989	0.05 2990	0.05
2991	0.05 2992	0.05 2993	0.05 2994	0.05 2995	0.05
2996	0.05 2997	0.05 2998	0.05 2999	0.05 3000	0.05
3001	0.05 3002	0.05 3003	0.05 3004	0.05 3005	0.05
3006	0.05 3007	0.05 3008	0.05 3009	0.05 3010	0.05
3011	0.05 3012	0.05 3013	0.05 3014	0.05 3015	0.05
3016	0.05 3017	0.05 3018	0.05 3019	0.05 3020	0.05
3021	0.05 3022	0.05 3023	0.05 3024	0.05 3025	0.25
3026	0.05 3027	0.05 3028	0.05 3029	0.05 3030	0.05
3031	0.05 3032	0.05 3033	0.05 3034	0.05 3035	0.05
3036	0.05 3037	0.05 3038	0.05 3039	0.05 3040	0.05
3041	0.05 3042	0.05 3043	0.05 3044	0.05 3045	0.05
3046	0.05 3047	0.05 3048	0.05 3049	0.05 3050	0.05
3051	0.05 3052	0.05 3053	0.05 3054	0.05 3055	0.05
3056	0.05 3057	0.05 3058	0.05 3059	0.05 3060	0.05
3061	0.05 3062	0.05 3063	0.05 3064	0.25 3065	0.05
3066	0.05 3067	0.05 3068	0.05 3069	0.05 3070	0.05
3071	0.25 3072	0.05 3073	0.05 3074	0.05 3075	0.05
3076	0.05 3077	0.05 3078	0.05 3079	0.05 3080	0.05
3081	0.05 3082	0.05 3083	0.05 3084	0.05 3085	0.05
3086	0.05 3087	0.05 3088	0.05 3089	0.05 3090	0.05
3091	0.05 3092	0.05 3093	0.05 3094	0.05 3095	0.05
3096	0.05 3097	0.05 3098	0.05 3099	0.05 3100	0.05
3101	0.05 3102	0.05 3103	0.25 3104	0.05 3105	0.25
3106	0.25 3107	0.25 3108	0.25 3109	0.25 3110	0.25
3111	0.05 3112	0.05 3113	0.05 3114	0.05 3115	0.05
3116	0.05 3117	0.05 3118	0.05 3119	0.05 3120	0.05
3121	0.05 3122	0.05 3123	0.05 3124	0.05 3125	0.05
3126	0.05 3127	0.05 3128	0.05 3129	0.05 3130	0.05
3131	0.05 3132	0.05 3133	0.05 3134	0.05 3135	0.05
3136	0.05 3137	0.25 3138	0.05 3139	0.05 3140	0.05
3141	0.05 3142	0.25 3143	0.25 3144	0.25 3145	0.25
3146	0.25 3147	0.05 3148	0.05 3149	0.05 3150	0.05
3151	0.25 3152	0.05 3153	0.05 3154	0.05 3155	0.05
3156	0.05 3157	0.05 3158	0.05 3159	0.05 3160	0.05
3161	0.05 3162	0.05 3163	0.05 3164	0.25 3165	0.25
3166	0.25 3167	0.25 3168	0.25 3169	0.25 3170	0.25
3171	0.25 3172	0.25 3173	0.25 3174	0.25 3175	0.25
3176	0.05 3177	0.25 3178	0.25 3179	0.25 3180	0.25
3181	0.25 3182	0.05 3183	0.05 3184	0.05 3185	0.05
3186	0.05 3187	0.05 3188	0.05 3189	0.05 3190	0.05
3191	0.05 3192	0.05 3193	0.05 3194	0.05 3195	0.05
3196	0.05 3197	0.25 3198	0.25 3199	0.25 3200	0.25
3201	0.25 3202	0.25 3203	0.25 3204	0.25 3205	0.25
3206	0.25 3207	0.25 3208	0.25 3209	0.25 3210	0.25
3211	0.25 3212	0.25 3213	0.05 3214	0.05 3215	0.05
3216	0.05 3217	0.05 3218	0.25 3219	0.05 3220	0.25
3221	0.05 3222	0.05 3223	0.05 3224	0.05 3225	0.05
3226	0.05 3227	0.05 3228	0.25 3229	0.25 3230	0.25
3231	0.25 3232	0.25 3233	0.25 3234	0.25 3235	0.25
3236	0.25 3237	0.25 3238	0.25 3239	0.25 3240	0.25
3241	0.05 3242	0.05 3243	0.05 3244	0.05 3245	0.05
3246	0.05 3247	0.25 3248	0.25 3249	0.25 3250	0.05
3251	0.25 3252	0.05 3253	0.05 3254	0.05 3255	0.05
3256	0.05 3257	0.25 3258	0.05 3259	0.05 3260	0.05
3261	0.05 3262	0.05 3263	0.25 3264	0.25 3265	0.25
3266	0.25 3267	0.25 3268	0.05 3269	0.05 3270	0.05
3271	0.05 3272	0.05 3273	0.05 3274	0.25 3275	0.25
3276	0.25 3277	0.25 3278	0.25 3279	0.05 3280	0.25
3281	0.05 3282	0.05 3283	0.05 3284	0.05 3285	0.05
3286	0.05 3287	0.05 3288	0.05 3289	0.05 3290	0.05
3291	0.05 3292	0.05 3293	0.05 3294	0.05 3295	0.05
3296	0.05 3297	0.05 3298	0.05 3299	0.05 3300	0.05
3301	0.05 3302	0.05 3303	0.05 3304	0.05 3305	0.05
3306	0.05 3307	0.05 3308	0.05 3309	0.05 3310	0.05
3311	0.05 3312	0.05 3313	0.05 3314	0.05 3315	0.05
3316	0.05 3317	0.05 3318	0.05 3319	0.05 3320	0.05

3321	0.05 3322	0.05 3323	0.05 3324	0.05 3325	0.05
3326	0.05 3327	0.05 3328	0.05 3329	0.05 3330	0.05
3331	0.05 3332	0.05 3333	0.05 3334	0.05 3335	0.05
3336	0.05 3337	0.05 3338	0.05 3339	0.05 3340	0.05
3341	0.05 3342	0.05 3343	0.05 3344	0.05 3345	0.05
3346	0.05 3347	0.05 3348	0.05 3349	0.05 3350	0.05
3351	0.05 3352	0.05 3353	0.05 3354	0.05 3355	0.05
3356	0.05 3357	0.05 3358	0.05 3359	0.05	

INITIAL HEAD ARRAY: INP, SFCT (I2, F10.0); NODE, HEAD (FT) (5(I5, F10.0))

I 1.0000

1	5096.6416	2	5096.9222	3	5096.0072	4	5097.2566	5	5096.1058
6	5095.4489	7	5097.5197	8	5096.4103	9	5095.5517	10	5094.9426
11	5098.1018	12	5097.4000	13	5095.7237	14	5095.0452	15	5094.5582
16	5094.6151	17	5098.7487	18	5097.1177	19	5095.8701	20	5095.1945
21	5094.7364	22	5094.2898	23	5094.3969	24	5099.6407	25	5097.5819
26	5096.1891	27	5095.4000	28	5094.8695	29	5094.4950	30	5093.8055
31	5094.0408	32	5100.7049	33	5098.4969	34	5096.6158	35	5095.5290
36	5094.9972	37	5094.6841	38	5094.2342	39	5093.0204	40	5093.4629
41	5101.2944	42	5099.5577	43	5097.1556	44	5095.7473	45	5095.2060
46	5094.8395	47	5094.5189	48	5093.7911	49	5092.0584	50	5092.9724
51	5102.0816	52	5100.5874	53	5098.1000	54	5096.1319	55	5095.3406
56	5095.0299	57	5094.7682	58	5094.2201	59	5093.4537	60	5091.9879
61	5092.42	62	5102.5952	63	5101.3349	64	5100.1215	65	5097.2687
66	5096.4186	67	5095.2875	68	5094.9906	69	5094.7538	70	5093.69
71	5092.8689	72	5091.7190	73	5091.9577	74	5103.0545	75	5101.6677
76	5100.7341	77	5099.0190	78	5098.8655	79	5096.7758	80	5095.2894
81	5094.9846	82	5094.5922	83	5093.6887	84	5092.4709	85	5091.2493
86	5091.6292	87	5103.8159	88	5102.5153	89	5100.7280	90	5100.3641
91	5101.4928	92	5099.6511	93	5098.3000	94	5095.9851	95	5095.2630
96	5094.5672	97	5093.4982	98	5092.2104	99	5091.0390	100	5091.2684
101	5104.5460	102	5103.9183	103	5101.8840	104	5100.7657	105	5090.7376
106	5090.7118	107	5090.6264	108	5090.4775	109	5090.3755	110	5090.5518
111	5090.7060	112	5090.6289	113	5090.6759	114	5091.0854	115	5091.7825
116	5091.7667	117	5092.1056	118	5092.9925	119	5095.7855	120	5096.5672
121	5098.9009	122	5100.0793	123	5100.0875	124	5100.1844	125	5101.4691
126	5103.3603	127	5104.3199	128	5105.1740	129	5105.2526	130	5106.2501
131	5106.9484	132	5107.4545	133	5107.8327	134	5108.7454	135	5108.6177
136	5108.6163	137	5108.9217	138	5109.4748	139	5110.0195	140	5110.6026
141	5112.4271	142	5114.6155	143	5105.0312	144	5103.9725	145	5102.3584
146	5099.3070	147	5096.8488	148	5095.8335	149	5094.7474	150	5093.6215
151	5091.7780	152	5091.0512	153	5105.1967	154	5105.2292	155	5105.1098
156	5104.3767	157	5090.6154	158	5090.8127	159	5090.7765	160	5090.1714
161	5090.7872	162	5090.8130	163	5090.4054	164	5091.0402	165	5091.4643
166	5091.3367	167	5092.8141	168	5093.5562	169	5095.1930	170	5094.9070
171	5099.6774	172	5102.5314	173	5101.3296	174	5103.6715	175	5104.0513
176	5105.0971	177	5105.7412	178	5105.8696	179	5105.2544	180	5106.3540
181	5106.9770	182	5107.2149	183	5107.8384	184	5107.9831	185	5108.8360
186	5108.8951	187	5109.1093	188	5109.5897	189	5109.8804	190	5110.1394
191	5110.9991	192	5112.6833	193	5115.1261	194	5109.2267	195	5108.9781
196	5107.5432	197	5105.2219	198	5101.6271	199	5098.8257	200	5097.0922
201	5095.3305	202	5093.3363	203	5091.4012	204	5091.1989	205	5106.3091
206	5107.2048	207	5108.0794	208	5107.9904	209	5090.9245	210	5090.8125
211	5090.8262	212	5090.9534	213	5091.0798	214	5091.9617	215	5092.3595
216	5093.8566	217	5095.1659	218	5096.7987	219	5098.2107	220	5099.4601
221	5100.8851	222	5102.0387	223	5103.5166	224	5103.9598	225	5104.9694
226	5105.1338	227	5105.7196	228	5106.0747	229	5106.5533	230	5106.7559
231	5107.2773	232	5107.3529	233	5107.5075	234	5108.1349	235	5108.4324
236	5109.1984	237	5109.2807	238	5109.3331	239	5109.7359	240	5110.1283
241	5110.2951	242	5111.1989	243	5113.4739	244	5115.6040	245	5112.3870
246	5112.3398	247	5113.1544	248	5112.6541	249	5109.7456	250	5105.9139
251	5102.0836	252	5098.1489	253	5095.7569	254	5093.6027	255	5092.6491
256	5090.94	257	5107.6545	258	5108.9725	259	5111.9000	260	5111.8499
261	5092.3154	262	5092.4074	263	5093.0455	264	5093.1632	265	5094.5586
266	5094.7293	267	5096.6665	268	5097.9405	269	5099.7300	270	5100.5131
271	5101.8953	272	5102.7319	273	5103.7041	274	5104.3600	275	5105.0204
276	5105.4146	277	5105.8357	278	5106.2897	279	5106.5203	280	5107.2309
281	5107.3632	282	5107.9207	283	5108.2174	284	5108.5632	285	5108.7926
286	5109.27	287	5109.4373	288	5109.6374	289	5109.7972	290	5110.0805
291	5110.2859	292	5110.3732	293	5111.4052	294	5114.0707	295	5115.9150
296	5115.7415	297	5116.2373	298	5117.4048	299	5117.0487	300	5115.2091
301	5113.2066	302	5108.6962	303	5103.4840	304	5099.0203	305	5097.0632
306	5096.3485	307	5096.3014	308	5096.8135	309	5109.2757	310	5111.2157
311	5113.5122	312	5114.7187	313	5096.5406	314	5097.0882	315	5097.7313
316	5099.4334	317	5099.2410	318	5100.3542	319	5100.6731	320	5102.1270
321	5102.7523	322	5103.8256	323	5104.3411	324	5105.4278	325	5105.6539
326	5106.4945	327	5106.1007	328	5107.1578	329	5107.9000	330	5108.5811
331	5108.8994	332	5108.7438	333	5109.1011	334	5109.0925	335	5109.3633
336	5109.2835	337	5109.4096	338	5109.8574	339	5110.0815	340	5110.0534
341	5110.3842	342	5110.4941	343	5110.4853	344	5111.5350	345	5114.7008
346	5116.3243	347	5118.6294	348	5119.0167	349	5119.6780	350	5120.4438
351	5118.7000	352	5117.3301	353	5114.1564	354	5110.5728	355	5105.1311
356	5101.3220	357	5100.7207	358	5100.9870	359	5101.7890	360	5100.6359
361	5111.3015	362	5114.3315	363	5115.9018	364	5119.0784	365	5101.8558

366 5102.1344	367 5102.7706	368 5103.2219	369 5104.5042	370 5104.0529
371 5105.0695	372 5105.1855	373 5106.3048	374 5106.0550	375 5107.3066
376 5108.0124	377 5108.9209	378 5108.9165	379 5110.0471	380 5110.36
381 5110.1480	382 5109.8420	383 5110.0086	384 5110.0795	385 5110.2954
386 5110.2840	387 5110.1012	388 5110.2053	389 5110.3307	390 5110.3112
391 5110.6627	392 5110.8921	393 5110.7763	394 5110.5673	395 5112.1267
396 5115.1694	397 5116.8211	398 5121.3538	399 5121.1000	400 5121.7104
401 5122.4576	402 5123.1060	403 5122.4221	404 5119.2140	405 5115.4664
406 5112.7170	407 5108.0885	408 5107.8594	409 5108.3763	410 5107.7621
411 5107.8238	412 5107.7192	413 5113.0678	414 5117.1720	415 5120.2102
416 5122.0239	417 5106.5794	418 5107.3371	419 5107.2582	420 5107.7176
421 5108.2089	422 5108.7860	423 5108.7086	424 5109.6988	425 5109.3396
426 5109.4457	427 5109.7244	428 5109.9955	429 5110.0726	430 5110.4834
431 5110.7155	432 5110.8267	433 5110.7086	434 5110.8471	435 5110.7255
436 5110.8076	437 5111.0126	438 5110.5604	439 5110.2534	440 5110.5926
441 5110.7702	442 5111.4690	443 5111.7668	444 5110.9733	445 5110.5734
446 5112.8301	447 5115.7989	448 5117.2531	449 5123.7108	450 5123.0589
451 5122.9330	452 5123.5849	453 5124.9763	454 5125.5714	455 5124.7679
456 5120.6332	457 5117.7187	458 5113.9542	459 5113.6263	460 5112.8749
461 5112.5341	462 5111.9800	463 5111.7196	464 5111.5662	465 5114.9072
466 5119.6274	467 5123.0610	468 5123.9054	469 5111.2180	470 5111.0113
471 5110.9011	472 5110.5957	473 5110.4912	474 5110.2106	475 5110.2125
476 5110.2436	477 5110.1977	478 5110.3012	479 5110.4708	480 5110.8321
481 5110.9915	482 5111.2369	483 5111.2509	484 5111.2207	485 5111.0218
486 5111.0000	487 5111.0342	488 5111.1857	489 5111.1589	490 5111.0037
491 5111.1857	492 5111.1901	493 5112.2577	494 5112.6234	495 5112.1424
496 5110.6871	497 5113.2318	498 5116.6402	499 5117.5116	500 5124.6872
501 5124.2507	502 5124.1227	503 5124.6690	504 5126.8290	505 5128.5694
506 5128.8180	507 5128.3557	508 5125.8861	509 5120.0468	510 5119.2252
511 5117.9542	512 5118.0425	513 5116.4690	514 5116.3533	515 5114.4279
516 5113.7917	517 5117.4443	518 5121.7848	519 5124.9374	520 5125.2910
521 5112.8760	522 5112.7371	523 5113.2950	524 5111.9227	525 5112.3766
526 5111.0977	527 5111.5281	528 5112.0000	529 5111.2478	530 5111.2736
531 5111.3791	532 5111.5534	533 5111.8642	534 5111.6966	535 5111.7248
536 5111.6608	537 5111.6646	538 5111.7851	539 5112.0076	540 5111.9030
541 5111.7783	542 5112.2471	543 5113.5269	544 5113.5360	545 5113.2157
546 5112.6309	547 5111.4061	548 5113.4110	549 5117.5211	550 5117.8925
551 5126.5507	552 5125.6106	553 5125.9000	554 5126.5297	555 5128.7659
556 5130.9160	557 5132.8974	558 5134.1289	559 5132.8183	560 5129.2976
561 5125.2000	562 5126.3253	563 5124.8269	564 5124.1352	565 5123.0060
566 5121.6440	567 5120.0512	568 5119.2047	569 5118.9840	570 5127.3000
571 5127.9749	572 5127.4967	573 5118.0755	574 5118.3307	575 5116.9637
576 5116.7030	577 5115.3266	578 5114.5301	579 5114.2971	580 5113.0651
581 5112.9755	582 5112.4882	583 5112.6610	584 5112.6736	585 5112.5971
586 5113.1254	587 5112.2428	588 5112.6959	589 5113.0306	590 5113.6932
591 5113.8297	592 5113.7365	593 5113.1367	594 5115.1979	595 5115.5772
596 5115.5211	597 5113.1440	598 5112.0000	599 5115.2889	600 5117.8126
601 5118.3446	602 5130.6649	603 5128.8745	604 5128.4177	605 5129.2802
606 5131.3689	607 5133.4741	608 5135.0947	609 5137.6040	610 5139.2008
611 5137.6837	612 5136.5524	613 5135.7235	614 5134.9622	615 5132.4630
616 5131.6841	617 5128.7221	618 5127.5323	619 5125.2871	620 5124.7226
621 5121.4604	622 5128.4652	623 5130.7770	624 5131.7205	625 5123.9877
626 5124.1191	627 5123.6183	628 5122.9417	629 5121.1156	630 5119.9794
631 5118.8960	632 5118.4827	633 5117.2895	634 5117.1226	635 5115.9767
636 5116.1751	637 5115.2174	638 5115.6105	639 5115.0613	640 5115.0136
641 5115.1883	642 5114.3361	643 5114.1369	644 5117.9071	645 5116.8423
646 5117.4291	647 5117.1872	648 5115.6343	649 5112.4417	650 5116.9920
651 5118.5668	652 5118.8448	653 5135.6944	654 5133.7713	655 5132.3051
656 5131.7578	657 5133.0340	658 5134.7929	659 5137.2910	660 5140.2769
661 5148.5300	662 5143.4864	663 5143.5451	664 5143.8489	665 5142.5234
666 5142.2701	667 5140.4293	668 5136.8949	669 5135.6013	670 5131.6424
671 5131.5508	672 5129.2221	673 5124.6497	674 5131.7982	675 5137.0723
676 5137.2401	677 5130.6017	678 5129.5919	679 5129.2088	680 5129.0448
681 5126.2058	682 5124.7335	683 5123.0634	684 5122.4361	685 5120.6004
686 5120.0522	687 5118.6933	688 5118.0475	689 5117.3838	690 5116.8624
691 5118.0766	692 5117.1760	693 5116.1993	694 5115.2812	695 5120.7404
696 5119.5916	697 5119.9759	698 5119.7991	699 5117.0366	700 5115.4038
701 5117.2634	702 5119.7622	703 5119.3497	704 5139.2485	705 5137.3979
706 5136.0253	707 5134.9947	708 5134.7982	709 5136.3389	710 5138.2969
711 5140.9870	712 5144.4922	713 5147.4223	714 5148.4940	715 5148.6714
716 5147.2000	717 5147.6385	718 5144.9394	719 5144.0708	720 5142.9010
721 5140.0535	722 5138.4751	723 5135.3906	724 5135.3841	725 5126.8103
726 5135.8120	727 5140.6501	728 5140.4027	729 5136.0416	730 5135.3153
731 5137.5845	732 5134.5821	733 5134.9832	734 5130.3765	735 5129.5739
736 5126.7465	737 5125.9075	738 5123.5640	739 5122.8268	740 5120.9359
741 5120.3623	742 5119.8354	743 5118.9748	744 5118.9029	745 5118.4379
746 5123.8399	747 5122.7589	748 5125.0135	749 5121.8548	750 5119.6098
751 5117.3243	752 5118.8578	753 5120.3605	754 5120.3087	755 5142.6439
756 5141.0378	757 5139.4568	758 5137.6617	759 5136.4000	760 5137.7483
761 5139.4662	762 5142.0114	763 5145.0251	764 5147.5290	765 5149.2820
766 5149.9314	767 5149.6333	768 5149.3144	769 5148.3939	770 5146.6622
771 5145.4154	772 5144.7080	773 5142.3120	774 5139.9511	775 5138.4041
776 5138.2187	777 5129.1912	778 5141.2429	779 5145.3005	780 5144.6514

781 5138.9158 782 5139.8013 783 5139.7546 784 5139.2053 785 5137.3402
786 5134.4736 787 5132.2545 788 5129.6124 789 5128.5650 790 5125.3912
791 5125.7753 792 5122.4681 793 5123.3024 794 5119.8946 795 5121.2190
796 5119.6053 797 5127.2546 798 5127.5309 799 5127.0492 800 5126.6553
801 5121.5638 802 5119.4975 803 5120.8408 804 5120.8107 805 5121.4830
806 5145.0340 807 5142.91 808 5142.9634 809 5142.6590 810 5141.5608
811 5141.3271 812 5142.3731 813 5143.3366 814 5145.2544 815 5147.7443
816 5148.8786 817 5149.8381 818 5149.9425 819 5149.9562 820 5149.6157
821 5148.9795 822 5147.5352 823 5146.2970 824 5145.1340 825 5143.7229
826 5141.7961 827 5139.5640 828 5141.0752 829 5134.5740 830 5147.1484
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NODE ID DEFINITIONS: ID, RECH.(GPM), DRCOND (FT**2/DAY), DRELEV, (I5,3F10.0)

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66	-131.29794	0.000	0.00
67	-51.27368	0.000	0.00
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82	0.76961	0.000	0.00
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89	14.37600	0.000	0.00
90	-8.73412	0.000	0.00
91	-1.38269	0.000	0.00
92	0.33634	0.000	0.00
93	-3.32862	0.000	0.00
94	1.03531	0.000	0.00
95	-11.18642	0.000	0.00
96	-2.32159	0.000	0.00
97	-0.30986	0.000	0.00
98	-0.09587	0.000	0.00
99	-0.02074	0.000	0.00
100	-0.00151	0.000	0.00
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115	-0.54612	0.000	0.00
116	-0.36533	0.000	0.00
117	0.06802	0.000	0.00
118	-0.13435	0.000	0.00
119	0.22637	0.000	0.00
120	-0.00942	0.000	0.00
121	-0.13265	0.000	0.00
122	0.16430	0.000	0.00
123	0.02671	0.000	0.00
124	-0.02792	0.000	0.00
125	0.03127	0.000	0.00
126	-0.00940	0.000	0.00
127	-0.04960	0.000	0.00
128	0.07216	0.000	0.00
129	0.03457	0.000	0.00
130	0.01848	0.000	0.00
131	0.03328	0.000	0.00
132	-0.02891	0.000	0.00
133	-0.02201	0.000	0.00
134	-0.00408	0.000	0.00
135	0.01442	0.000	0.00
136	38.95630	0.000	0.00
137	-0.03792	0.000	0.00
138	-34.33861	0.000	0.00
139	0.02185	0.000	0.00
140	4.08017	0.000	0.00

141	0.03844	0.000	0.00
142	-9.77792	0.000	0.00
143	0.03035	0.000	0.00
144	-8.18122	0.000	0.00
145	0.01095	0.000	0.00
146	-9.97479	0.000	0.00
147	-0.07544	0.000	0.00
148	-3.49700	0.000	0.00
149	-0.00732	0.000	0.00
150	-3.47277	0.000	0.00
151	0.00342	0.000	0.00
152	-1.81462	0.000	0.00
153	-0.01941	0.000	0.00
154	-0.82363	0.000	0.00
155	-0.11265	0.000	0.00
156	-0.21490	0.000	0.00
157	-0.28868	0.000	0.00
158	-0.05096	0.000	0.00
159	-0.30613	0.000	0.00
160	0.16872	0.000	0.00
161	-0.22511	0.000	0.00
162	-0.03323	0.000	0.00
163	-0.18955	0.000	0.00
164	-0.22527	0.000	0.00
165	-0.19265	0.000	0.00

GHB CONDITIONS: NUMBS (15)

0

OBSERVED HEAD DATA(WELL NODEID,OBSERVED HEAD)(I10,F10.0)

74

22012	5143.470
22025	5109.180
22043	5091.860
22049	5110.010
22052	5090.260
22054	5111.380
23013	5138.240
23058	5139.100
23085	5138.250
23096	5138.970
23122	5135.630
23134	5138.180
23135	5144.100
23150	5138.050
23179	5139.860
23182	5112.840
23185	5139.990
23188	5138.700
23191	5139.980
23223	5137.200
24010	5139.590
24092	5139.240
24122	5155.854
24200	5137.560
25022	5212.730
25028	5179.110
26010	5161.760
26015	5145.660
26017	5145.450
26020	5148.650
26040	5147.030
26041	5145.790
26046	5145.680
26049	5150.880
26050	5156.920
26062	5162.270
26063	5183.150
26065	5161.120
26068	5159.030
26073	5176.060
26076	5151.410
26081	5147.430
26083	5152.550
26085	5178.840
26088	5142.300
26124	5154.410
26133	5146.720
26143	5173.800
26159	5199.750
26160	5144.460
26166	5151.110
26168	5155.800
26169	5148.270
26170	5141.820

26173 5148.600
 27003 5097.810
 27017 5147.630
 27019 5148.060
 27024 5124.790
 27040 5119.700
 27041 5112.720
 27051 5128.390
 27056 5097.330
 27059 5126.410
 27064 5093.250
 27072 5095.750
 27073 5097.930
 27080 5119.070
 27084 5135.820
 35031 5173.220
 35040 5164.400
 35048 5216.270
 35079 5199.060
 35091 5182.040

UPDATES FOR PUMPING PERIOD # 2

PINT PRINTIT CHANGEM (F10.0,4X,A1,1X,A4)

90.00 Y BOTH

NODEID REC DRCOND DRELEV (I5,3F10.0)

1	0.00000	0.000	0.00
2	0.00000	0.000	0.00
3	0.00000	0.000	0.00
4	0.00000	0.000	0.00
5	0.00000	0.000	0.00
6	0.00000	0.000	0.00
7	0.00000	0.000	0.00
8	0.00000	0.000	0.00
9	0.00000	0.000	0.00
10	0.00000	0.000	0.00
11	0.00000	0.000	0.00
12	0.00000	0.000	0.00
13	0.00000	0.000	0.00
14	0.00000	0.000	0.00
15	1.30000	0.000	0.00
16	0.00000	0.000	0.00
17	0.25000	0.000	0.00
18	2.77500	0.000	0.00
19	3.87500	0.000	0.00
20	3.45000	0.000	0.00
21	05.80000	0.000	0.00
22	07.55000	0.000	0.00
23	11.43480	0.000	0.00
24	1.24610	0.000	0.00
25	1.17280	0.000	0.00
26	2.05240	0.000	0.00
27	2.34560	0.000	0.00
28	4.03150	0.000	0.00
29	15.97940	0.000	0.00
30	0.02058	0.000	0.00
31	36.86463	0.000	0.00
32	24.46959	0.000	0.00
33	0.00000	0.000	0.00
34	43.42014	0.000	0.00
35	7.51994	0.000	0.00
36	29.65931	0.000	0.00
37	30.89646	0.000	0.00
38	77.76269	0.000	0.00
39	0.02205	0.000	0.00
40	2.54340	0.000	0.00
41	95.52829	0.000	0.00
42	2.27906	0.000	0.00
43	4.81629	0.000	0.00
44	2.37466	0.000	0.00
45	0.03000	0.000	0.00
46	-0.58528	0.000	0.00
47	-0.58528	0.000	0.00
48	-0.58528	0.000	0.00
49	-0.58528	0.000	0.00
50	-1.46459	0.000	0.00
51	-1.46459	0.000	0.00
52	-1.46459	0.000	0.00
53	-1.46459	0.000	0.00
54	-0.79929	0.000	0.00
55	-0.79929	0.000	0.00
56	-0.79929	0.000	0.00
57	-0.79929	0.000	0.00
58	0.00000	0.000	0.00
59	0.00000	0.000	0.00

60	-23.10441	0.000	0.00
61	-32.98300	0.000	0.00
62	7.22125	0.000	0.00
63	-12.17736	0.000	0.00
64	12.89926	0.000	0.00
65	-16.47956	0.000	0.00
66	-131.70788	0.000	0.00
67	-51.75439	0.000	0.00
68	-75.43665	0.000	0.00
69	-47.76448	0.000	0.00
70	-33.54935	0.000	0.00
71	-17.21722	0.000	0.00
72	-10.51823	0.000	0.00
73	0.90592	0.000	0.00
74	-0.62149	0.000	0.00
75	-1.53413	0.000	0.00
76	2.28684	0.000	0.00
77	-3.07490	0.000	0.00
78	-0.30108	0.000	0.00
79	1.40027	0.000	0.00
80	-0.26193	0.000	0.00
81	1.41266	0.000	0.00
82	0.69999	0.000	0.00
83	-0.25962	0.000	0.00
84	0.46693	0.000	0.00
85	1.77473	0.000	0.00
86	2.40992	0.000	0.00
87	4.03353	0.000	0.00
88	-0.88352	0.000	0.00
89	13.98297	0.000	0.00
90	-8.64160	0.000	0.00
91	-1.46789	0.000	0.00
92	0.23492	0.000	0.00
93	-3.41963	0.000	0.00
94	0.91972	0.000	0.00
95	-11.76557	0.000	0.00
96	-2.51123	0.000	0.00
97	-0.33915	0.000	0.00
98	-0.12151	0.000	0.00
99	-0.02259	0.000	0.00
100	-0.00195	0.000	0.00
101	0.00854	0.000	0.00
102	-0.02180	0.000	0.00
103	-0.08627	0.000	0.00
104	-0.18999	0.000	0.00
105	-0.19146	0.000	0.00
106	-0.67064	0.000	0.00
107	-0.95578	0.000	0.00
108	-1.53340	0.000	0.00
109	-2.08650	0.000	0.00
110	-1.28399	0.000	0.00
111	-1.86141	0.000	0.00
112	-1.04165	0.000	0.00
113	-0.97542	0.000	0.00
114	-1.41333	0.000	0.00
115	-0.47715	0.000	0.00
116	-0.30227	0.000	0.00
117	0.13341	0.000	0.00
118	-0.09126	0.000	0.00
119	0.25947	0.000	0.00
120	0.01432	0.000	0.00
121	-0.11622	0.000	0.00
122	0.18468	0.000	0.00
123	0.04034	0.000	0.00
124	-0.01680	0.000	0.00
125	0.04141	0.000	0.00
126	-0.00137	0.000	0.00
127	-0.04376	0.000	0.00
128	0.07866	0.000	0.00
129	0.04039	0.000	0.00
130	0.02082	0.000	0.00
131	0.03242	0.000	0.00
132	-0.03133	0.000	0.00
133	-0.02600	0.000	0.00
134	-0.01430	0.000	0.00
135	0.00299	0.000	0.00
136	38.63945	0.000	0.00
137	-0.04397	0.000	0.00
138	-35.01601	0.000	0.00
139	0.02333	0.000	0.00
140	3.31579	0.000	0.00
141	0.04310	0.000	0.00
142	-10.56950	0.000	0.00

143	0.03033	0.000	0.00
144	-8.79322	0.000	0.00
145	0.00783	0.000	0.00
146	-10.23647	0.000	0.00
147	-0.07204	0.000	0.00
148	-3.60679	0.000	0.00
149	0.00162	0.000	0.00
150	-3.50922	0.000	0.00
151	0.00566	0.000	0.00
152	-1.88993	0.000	0.00
153	-0.02974	0.000	0.00
154	-0.88228	0.000	0.00
155	-0.13993	0.000	0.00
156	-0.24174	0.000	0.00
157	-0.33718	0.000	0.00
158	-0.06852	0.000	0.00
159	-0.35708	0.000	0.00
160	0.17013	0.000	0.00
161	-0.27335	0.000	0.00
162	-0.04197	0.000	0.00
163	-0.23405	0.000	0.00
164	-0.25312	0.000	0.00
165	-0.23064	0.000	0.00
EL.ID RECH VPRM HDLEAK (I5,3F10.0)			
1	-0.0001	0.0000	0.00
2	-0.0001	0.0000	0.00
3	-0.0001	0.0000	0.00
4	-0.0001	0.0000	0.00
5	-0.0001	0.0000	0.00
6	-0.0001	0.0000	0.00
7	-0.0001	0.0000	0.00
8	-0.0001	0.0000	0.00
9	-0.0001	0.0000	0.00
10	-0.0001	0.0000	0.00
31	-0.00127	0.0000	0.00
33	-0.00095	0.0000	0.00
35	-0.0000	0.0000	0.00
65	-0.0121	0.0000	0.00
UPDATES FOR PUMPING PERIOD # 3			
PINT PRINTIT CHANGEM (F10.0,4X,A1,1X,A4)			
90.00 Y BOTH			
NODEID REC DRCOND DRELEV (I5,3F10.0)			
1	0.00000	0.000	0.00
2	0.00000	0.000	0.00
3	0.00000	0.000	0.00
4	0.00000	0.000	0.00
5	0.00000	0.000	0.00
6	0.00000	0.000	0.00
7	0.00000	0.000	0.00
8	0.00000	0.000	0.00
9	0.00000	0.000	0.00
10	0.00000	0.000	0.00
11	0.00000	0.000	0.00
12	0.00000	0.000	0.00
13	0.00000	0.000	0.00
14	0.00000	0.000	0.00
15	1.30000	0.000	0.00
16	0.00000	0.000	0.00
17	0.25000	0.000	0.00
18	2.77500	0.000	0.00
19	3.87500	0.000	0.00
20	3.45000	0.000	0.00
21	05.80000	0.000	0.00
22	07.55000	0.000	0.00
23	11.43480	0.000	0.00
24	1.24610	0.000	0.00
25	1.17280	0.000	0.00
26	2.05240	0.000	0.00
27	2.34560	0.000	0.00
28	4.03150	0.000	0.00
29	15.97940	0.000	0.00
30	0.19274	0.000	0.00
31	33.04775	0.000	0.00
32	14.54943	0.000	0.00
33	0.00147	0.000	0.00
34	41.06178	0.000	0.00
35	0.03678	0.000	0.00
36	28.92083	0.000	0.00
37	88.40443	0.000	0.00
38	60.81731	0.000	0.00
39	0.00000	0.000	0.00
40	46.64159	0.000	0.00
41	33.07129	0.000	0.00

42	2.52935	0.000	0.00
43	5.34522	0.000	0.00
44	2.63544	0.000	0.00
45	0.34000	0.000	0.00
46	-0.71898	0.000	0.00
47	-0.71898	0.000	0.00
48	-0.71898	0.000	0.00
49	-0.71898	0.000	0.00
50	-1.79915	0.000	0.00
51	-1.79915	0.000	0.00
52	-1.79915	0.000	0.00
53	-1.79915	0.000	0.00
54	-0.98188	0.000	0.00
55	-0.98188	0.000	0.00
56	-0.98188	0.000	0.00
57	-0.98188	0.000	0.00
58	0.00000	0.000	0.00
59	0.00000	0.000	0.00
60	-22.88391	0.000	0.00
61	-32.69602	0.000	0.00
62	7.72661	0.000	0.00
63	-11.79272	0.000	0.00
64	13.31648	0.000	0.00
65	-16.02127	0.000	0.00
66	-131.21848	0.000	0.00
67	-51.31587	0.000	0.00
68	-75.03797	0.000	0.00
69	-47.36816	0.000	0.00
70	-33.23750	0.000	0.00
71	-16.95750	0.000	0.00
72	-10.25068	0.000	0.00
73	1.17436	0.000	0.00
74	-0.27658	0.000	0.00
75	-1.07084	0.000	0.00
76	2.57730	0.000	0.00
77	-2.94757	0.000	0.00
78	-0.16336	0.000	0.00
79	1.51965	0.000	0.00
80	-0.13665	0.000	0.00
81	1.53121	0.000	0.00
82	0.79904	0.000	0.00
83	-0.15677	0.000	0.00
84	0.60121	0.000	0.00
85	1.94643	0.000	0.00
86	2.58615	0.000	0.00
87	4.21659	0.000	0.00
88	-0.74147	0.000	0.00
89	14.23038	0.000	0.00
90	-8.56693	0.000	0.00
91	-1.34039	0.000	0.00
92	0.37196	0.000	0.00
93	-3.28508	0.000	0.00
94	1.05341	0.000	0.00
95	-11.26855	0.000	0.00
96	-2.21504	0.000	0.00
97	-0.18506	0.000	0.00
98	-0.05602	0.000	0.00
99	-0.00224	0.000	0.00
100	0.01838	0.000	0.00
101	0.03041	0.000	0.00
102	-0.00079	0.000	0.00
103	-0.06093	0.000	0.00
104	-0.15411	0.000	0.00
105	-0.15653	0.000	0.00
106	-0.65339	0.000	0.00
107	-0.93338	0.000	0.00
108	-1.47155	0.000	0.00
109	-1.96785	0.000	0.00
110	-1.11149	0.000	0.00
111	-1.68677	0.000	0.00
112	-0.90345	0.000	0.00
113	-0.96083	0.000	0.00
114	-1.36506	0.000	0.00
115	-0.42062	0.000	0.00
116	-0.24974	0.000	0.00
117	0.19012	0.000	0.00
118	-0.04424	0.000	0.00
119	0.30299	0.000	0.00
120	0.05118	0.000	0.00
121	-0.08671	0.000	0.00
122	0.22669	0.000	0.00
123	0.07738	0.000	0.00
124	0.01878	0.000	0.00

125	0.07814	0.000	0.00
126	0.03233	0.000	0.00
127	-0.01562	0.000	0.00
128	0.11471	0.000	0.00
129	0.07784	0.000	0.00
130	0.05755	0.000	0.00
131	0.05949	0.000	0.00
132	-0.00982	0.000	0.00
133	-0.00167	0.000	0.00
134	0.01341	0.000	0.00
135	0.02861	0.000	0.00
136	39.19635	0.000	0.00
137	-0.01628	0.000	0.00
138	-33.73046	0.000	0.00
139	0.05476	0.000	0.00
140	4.89590	0.000	0.00
141	0.07699	0.000	0.00
142	-8.84549	0.000	0.00
143	0.05894	0.000	0.00
144	-7.30433	0.000	0.00
145	0.04155	0.000	0.00
146	-9.48743	0.000	0.00
147	-0.03417	0.000	0.00
148	-3.26882	0.000	0.00
149	0.04060	0.000	0.00
150	-3.39075	0.000	0.00
151	0.04195	0.000	0.00
152	-1.80363	0.000	0.00
153	0.00156	0.000	0.00
154	-0.82881	0.000	0.00
155	-0.11060	0.000	0.00
156	-0.21099	0.000	0.00
157	-0.30121	0.000	0.00
158	-0.03226	0.000	0.00
159	-0.32007	0.000	0.00
160	0.21661	0.000	0.00
161	-0.23617	0.000	0.00
162	0.00867	0.000	0.00
163	-0.19588	0.000	0.00
164	-0.21054	0.000	0.00
165	-0.19116	0.000	0.00
ELID RECH. VPRM HDLEAK (I5,3F10.0)			
1	-0.0005	0.0000	0.00
2	-0.0005	0.0000	0.00
3	-0.0005	0.0000	0.00
4	-0.0005	0.0000	0.00
5	-0.0003	0.0000	0.00
6	-0.0003	0.0000	0.00
7	-0.0003	0.0000	0.00
8	-0.0003	0.0000	0.00
9	-0.0003	0.0000	0.00
10	-0.0003	0.0000	0.00
31	-0.00167	0.0000	0.00
33	-0.00135	0.0000	0.00
35	-0.0000	0.0000	0.00
65	-0.0125	0.0000	0.00
UPDATES FOR PUMPING PERIOD # 4			
PINT PRINTIT CHANGEM (F10.0,4X,A1,1X,A4)			
90.00 Y BOTH			
NODEID REC DRCOND DRELEV (I5,3F10.0)			
1	0.00000	0.000	0.00
2	0.00000	0.000	0.00
3	0.00000	0.000	0.00
4	0.00000	0.000	0.00
5	0.00000	0.000	0.00
6	0.00000	0.000	0.00
7	0.00000	0.000	0.00
8	0.00000	0.000	0.00
9	0.00000	0.000	0.00
10	0.00000	0.000	0.00
11	0.00000	0.000	0.00
12	0.00000	0.000	0.00
13	0.00000	0.000	0.00
14	0.00000	0.000	0.00
15	1.30000	0.000	0.00
16	0.00000	0.000	0.00
17	0.25000	0.000	0.00
18	2.77500	0.000	0.00
19	3.87500	0.000	0.00
20	3.45000	0.000	0.00
21	05.80000	0.000	0.00
22	07.55000	0.000	0.00
23	11.43480	0.000	0.00

24	1.24610	0.000	0.00
25	1.17280	0.000	0.00
26	2.05240	0.000	0.00
27	2.34560	0.000	0.00
28	4.03150	0.000	0.00
29	15.97940	0.000	0.00
30	0.18829	0.000	0.00
31	25.97548	0.000	0.00
32	0.00000	0.000	0.00
33	0.00000	0.000	0.00
34	38.58411	0.000	0.00
35	0.00000	0.000	0.00
36	3.15367	0.000	0.00
37	52.50426	0.000	0.00
38	44.11461	0.000	0.00
39	42.30467	0.000	0.00
40	29.56212	0.000	0.00
41	6.16184	0.000	0.00
42	2.32960	0.000	0.00
43	4.92309	0.000	0.00
44	2.42731	0.000	0.00
45	0.03000	0.000	0.00
46	-0.74859	0.000	0.00
47	-0.74859	0.000	0.00
48	-0.74859	0.000	0.00
49	-0.74859	0.000	0.00
50	-1.87325	0.000	0.00
51	-1.87325	0.000	0.00
52	-1.87325	0.000	0.00
53	-1.87325	0.000	0.00
54	-1.02232	0.000	0.00
55	-1.02232	0.000	0.00
56	-1.02232	0.000	0.00
57	-1.02232	0.000	0.00
58	-118.5000	0.000	0.00
59	-127.9000	0.000	0.00
60	-17.71239	0.000	0.00
61	-22.12447	0.000	0.00
62	50.72384	0.000	0.00
63	17.27286	0.000	0.00
64	35.22105	0.000	0.00
65	-1.34117	0.000	0.00
66	-121.26754	0.000	0.00
67	-45.00870	0.000	0.00
68	-71.07982	0.000	0.00
69	-44.30846	0.000	0.00
70	-31.62340	0.000	0.00
71	-16.23601	0.000	0.00
72	-9.79893	0.000	0.00
73	1.49720	0.000	0.00
74	0.12815	0.000	0.00
75	-0.42506	0.000	0.00
76	2.95559	0.000	0.00
77	-2.86587	0.000	0.00
78	-0.02110	0.000	0.00
79	1.61913	0.000	0.00
80	-0.07500	0.000	0.00
81	1.61076	0.000	0.00
82	0.86090	0.000	0.00
83	-0.09300	0.000	0.00
84	0.68635	0.000	0.00
85	2.05889	0.000	0.00
86	2.69191	0.000	0.00
87	4.32885	0.000	0.00
88	-0.65747	0.000	0.00
89	14.60113	0.000	0.00
90	-8.60446	0.000	0.00
91	-1.24765	0.000	0.00
92	0.47570	0.000	0.00
93	-3.19278	0.000	0.00
94	1.15228	0.000	0.00
95	-10.84634	0.000	0.00
96	-1.99252	0.000	0.00
97	-0.07599	0.000	0.00
98	-0.01265	0.000	0.00
99	0.01300	0.000	0.00
100	0.03294	0.000	0.00
101	0.04603	0.000	0.00
102	0.01340	0.000	0.00
103	-0.04176	0.000	0.00
104	-0.12707	0.000	0.00
105	-0.12731	0.000	0.00
106	-0.62565	0.000	0.00

107	-0.88692	0.000	0.00
108	-1.39383	0.000	0.00
109	-1.85832	0.000	0.00
110	-0.97858	0.000	0.00
111	-1.56996	0.000	0.00
112	-0.81940	0.000	0.00
113	-0.95340	0.000	0.00
114	-1.33726	0.000	0.00
115	-0.38681	0.000	0.00
116	-0.21748	0.000	0.00
117	0.22642	0.000	0.00
118	-0.01387	0.000	0.00
119	0.33195	0.000	0.00
120	0.07627	0.000	0.00
121	-0.06629	0.000	0.00
122	0.25605	0.000	0.00
123	0.10376	0.000	0.00
124	0.04618	0.000	0.00
125	0.10832	0.000	0.00
126	0.06101	0.000	0.00
127	0.00873	0.000	0.00
128	0.14589	0.000	0.00
129	0.11220	0.000	0.00
130	0.08979	0.000	0.00
131	0.08157	0.000	0.00
132	0.00681	0.000	0.00
133	0.01894	0.000	0.00
134	0.03924	0.000	0.00
135	0.05227	0.000	0.00
136	39.79051	0.000	0.00
137	0.00875	0.000	0.00
138	-32.39414	0.000	0.00
139	0.08263	0.000	0.00
140	6.50840	0.000	0.00
141	0.10681	0.000	0.00
142	-7.08708	0.000	0.00
143	0.08303	0.000	0.00
144	-5.81684	0.000	0.00
145	0.07082	0.000	0.00
146	-8.77293	0.000	0.00
147	-0.00244	0.000	0.00
148	-2.95715	0.000	0.00
149	0.07242	0.000	0.00
150	-3.29710	0.000	0.00
151	0.07241	0.000	0.00
152	-1.73120	0.000	0.00
153	0.02928	0.000	0.00
154	-0.78648	0.000	0.00
155	-0.08276	0.000	0.00
156	-0.18935	0.000	0.00
157	-0.26297	0.000	0.00
158	-0.00479	0.000	0.00
159	-0.28098	0.000	0.00
160	0.25095	0.000	0.00
161	-0.19811	0.000	0.00
162	0.04913	0.000	0.00
163	-0.15818	0.000	0.00
164	-0.17334	0.000	0.00
165	-0.15430	0.000	0.00
ELID RECH. VPRM HDLEAK (I5,3F10.0)			
1	-0.0007	0.0000	0.00
2	-0.0007	0.0000	0.00
3	-0.0007	0.0000	0.00
4	-0.0007	0.0000	0.00
5	-0.0004	0.0000	0.00
6	-0.0004	0.0000	0.00
7	-0.0004	0.0000	0.00
8	-0.0004	0.0000	0.00
9	-0.0004	0.0000	0.00
10	-0.0004	0.0000	0.00
31	-0.00187	0.0000	0.00
33	-0.00155	0.0000	0.00
35	-0.0000	0.0000	0.00
65	-0.0127	0.0000	0.00
UPDATES FOR PUMPING PERIOD # 5			
PINT PRINTIT CHANGEM (F10.0,4X,A1,1X,A4)			
90.00 Y BOTH			
NODEID REC DRCOND DRELEV (I5,3F10.0)			
1	0.00000	0.000	0.00
2	0.00000	0.000	0.00
3	0.00000	0.000	0.00
4	0.00000	0.000	0.00
5	0.00000	0.000	0.00

6	0.00000	0.000	0.00
7	0.00000	0.000	0.00
8	0.00000	0.000	0.00
9	0.00000	0.000	0.00
10	0.00000	0.000	0.00
11	0.00000	0.000	0.00
12	0.00000	0.000	0.00
13	0.00000	0.000	0.00
14	0.00000	0.000	0.00
15	0.00000	0.000	0.00
16	0.00000	0.000	0.00
17	0.48920	0.000	0.00
18	0.00000	0.000	0.00
19	7.49010	0.000	0.00
20	0.48920	0.000	0.00
21	0.00000	0.000	0.00
22	0.03060	0.000	0.00
23	0.09170	0.000	0.00
24	0.09170	0.000	0.00
25	0.09170	0.000	0.00
26	0.09170	0.000	0.00
27	15.01090	0.000	0.00
28	0.00000	0.000	0.00
29	0.00000	0.000	0.00
30	0.20471	0.000	0.00
31	28.41458	0.000	0.00
32	22.42945	0.000	0.00
33	7.17198	0.000	0.00
34	42.55147	0.000	0.00
35	0.00000	0.000	0.00
36	2.14414	0.000	0.00
37	55.19799	0.000	0.00
38	64.14255	0.000	0.00
39	33.79919	0.000	0.00
40	50.08436	0.000	0.00
41	17.32765	0.000	0.00
42	0.92288	0.000	0.00
43	5.39639	0.000	0.00
44	4.07741	0.000	0.00
45	1.13000	0.000	0.00
46	-1.19145	0.000	0.00
47	-1.19145	0.000	0.00
48	-1.19145	0.000	0.00
49	-1.19145	0.000	0.00
50	-1.39227	0.000	0.00
51	-1.39227	0.000	0.00
52	-1.39227	0.000	0.00
53	-1.39227	0.000	0.00
54	-0.93545	0.000	0.00
55	-0.93545	0.000	0.00
56	-0.93545	0.000	0.00
57	-0.93545	0.000	0.00
58	-80.5000	0.000	0.00
59	-146.4000	0.000	0.00
60	-18.51770	0.000	0.00
61	-23.56409	0.000	0.00
62	47.41259	0.000	0.00
63	15.35095	0.000	0.00
64	34.31006	0.000	0.00
65	-2.34470	0.000	0.00
66	-122.19400	0.000	0.00
67	-45.76328	0.000	0.00
68	-71.65788	0.000	0.00
69	-44.82061	0.000	0.00
70	-31.96739	0.000	0.00
71	-16.46625	0.000	0.00
72	-10.00371	0.000	0.00
73	1.30624	0.000	0.00
74	-0.07701	0.000	0.00
75	-0.64529	0.000	0.00
76	2.69993	0.000	0.00
77	-3.00184	0.000	0.00
78	-0.22025	0.000	0.00
79	1.45063	0.000	0.00
80	-0.19831	0.000	0.00
81	1.46994	0.000	0.00
82	0.74520	0.000	0.00
83	-0.19792	0.000	0.00
84	0.59689	0.000	0.00
85	1.97730	0.000	0.00
86	2.59441	0.000	0.00
87	4.23060	0.000	0.00
88	-0.76006	0.000	0.00

89	14.28135	0.000	0.00
90	-8.65298	0.000	0.00
91	-1.39405	0.000	0.00
92	0.31116	0.000	0.00
93	-3.34841	0.000	0.00
94	0.99290	0.000	0.00
95	-11.46323	0.000	0.00
96	-2.26792	0.000	0.00
97	-0.19606	0.000	0.00
98	-0.07682	0.000	0.00
99	-0.00372	0.000	0.00
100	0.01745	0.000	0.00
101	0.03180	0.000	0.00
102	0.00069	0.000	0.00
103	-0.05143	0.000	0.00
104	-0.13769	0.000	0.00
105	-0.15037	0.000	0.00
106	-0.66432	0.000	0.00
107	-0.93938	0.000	0.00
108	-1.44717	0.000	0.00
109	-1.90127	0.000	0.00
110	-1.01388	0.000	0.00
111	-1.60379	0.000	0.00
112	-0.86075	0.000	0.00
113	-0.96707	0.000	0.00
114	-1.36161	0.000	0.00
115	-0.40842	0.000	0.00
116	-0.23566	0.000	0.00
117	0.20981	0.000	0.00
118	-0.03072	0.000	0.00
119	0.31499	0.000	0.00
120	0.06079	0.000	0.00
121	-0.07956	0.000	0.00
122	0.23587	0.000	0.00
123	0.08404	0.000	0.00
124	0.02925	0.000	0.00
125	0.09295	0.000	0.00
126	0.04730	0.000	0.00
127	-0.00303	0.000	0.00
128	0.12969	0.000	0.00
129	0.09626	0.000	0.00
130	0.06977	0.000	0.00
131	0.06301	0.000	0.00
132	-0.01039	0.000	0.00
133	-0.00007	0.000	0.00
134	0.01780	0.000	0.00
135	0.03278	0.000	0.00
136	48.45687	0.000	0.00
137	-0.00969	0.000	0.00
138	-18.91841	0.000	0.00
139	0.06495	0.000	0.00
140	8.40587	0.000	0.00
141	0.08947	0.000	0.00
142	-4.91285	0.000	0.00
143	0.06648	0.000	0.00
144	-4.83322	0.000	0.00
145	0.05237	0.000	0.00
146	-8.63157	0.000	0.00
147	-0.02273	0.000	0.00
148	-3.01054	0.000	0.00
149	0.05080	0.000	0.00
150	-3.36621	0.000	0.00
151	0.04903	0.000	0.00
152	-1.81056	0.000	0.00
153	0.00352	0.000	0.00
154	-0.85614	0.000	0.00
155	-0.11386	0.000	0.00
156	-0.23077	0.000	0.00
157	-0.30701	0.000	0.00
158	-0.05082	0.000	0.00
159	-0.32887	0.000	0.00
160	0.20291	0.000	0.00
161	-0.24634	0.000	0.00
162	-0.00073	0.000	0.00
163	-0.20574	0.000	0.00
164	-0.21815	0.000	0.00
165	-0.19985	0.000	0.00
ELID RECH. VPRM HDLEAK (I5,3F10.0)			
1	-0.0003	0.0000	0.00
2	-0.0003	0.0000	0.00
3	-0.0003	0.0000	0.00
4	-0.0003	0.0000	0.00
5	-0.0002	0.0000	0.00

6	-0.0002	0.0000	0.00
7	-0.0002	0.0000	0.00
8	-0.0002	0.0000	0.00
9	-0.0002	0.0000	0.00
10	-0.0002	0.0000	0.00
31	-0.00147	0.0000	0.00
33	-0.00115	0.0000	0.00
35	-0.0000	0.0000	0.00
65	-0.0123	0.0000	0.00

UPDATES FOR PUMPING PERIOD # 6
PINT PRINTIT CHANGEM (F10.0,4X,A1,1X,A4)
90.00 Y BOTH
NODEID REC DRCOND DRELEV (I5,3F10.0)

1	0.00000	0.000	0.00
2	0.00000	0.000	0.00
3	0.00000	0.000	0.00
4	0.00000	0.000	0.00
5	0.00000	0.000	0.00
6	0.00000	0.000	0.00
7	0.00000	0.000	0.00
8	0.00000	0.000	0.00
9	0.00000	0.000	0.00
10	0.00000	0.000	0.00
11	0.00000	0.000	0.00
12	0.00000	0.000	0.00
13	0.00000	0.000	0.00
14	0.00000	0.000	0.00
15	0.00000	0.000	0.00
16	0.00000	0.000	0.00
17	0.35000	0.000	0.00
18	0.35000	0.000	0.00
19	6.80000	0.000	0.00
20	7.00000	0.000	0.00
21	1.60000	0.000	0.00
22	0.00000	0.000	0.00
23	8.00000	0.000	0.00
24	0.00000	0.000	0.00
25	0.00000	0.000	0.00
26	0.00000	0.000	0.00
27	0.00000	0.000	0.00
28	1.00000	0.000	0.00
29	0.65000	0.000	0.00
30	0.15706	0.000	0.00
31	22.14596	0.000	0.00
32	25.45446	0.000	0.00
33	19.70187	0.000	0.00
34	28.98331	0.000	0.00
35	0.86893	0.000	0.00
36	2.05765	0.000	0.00
37	59.49770	0.000	0.00
38	62.53163	0.000	0.00
39	28.37652	0.000	0.00
40	52.17334	0.000	0.00
41	34.49748	0.000	0.00
42	0.65835	0.000	0.00
43	3.84962	0.000	0.00
44	2.90870	0.000	0.00
45	2.59667	0.000	0.00
46	-1.50010	0.000	0.00
47	-1.50010	0.000	0.00
48	-1.50010	0.000	0.00
49	-1.50010	0.000	0.00
50	-1.75295	0.000	0.00
51	-1.75295	0.000	0.00
52	-1.75295	0.000	0.00
53	-1.75295	0.000	0.00
54	-1.17778	0.000	0.00
55	-1.17778	0.000	0.00
56	-1.17778	0.000	0.00
57	-1.17778	0.000	0.00
58	-85.6000	0.000	0.00
59	-147.2000	0.000	0.00
60	-18.34052	0.000	0.00
61	-23.24230	0.000	0.00
62	48.47391	0.000	0.00
63	16.04468	0.000	0.00
64	34.79456	0.000	0.00
65	-1.97255	0.000	0.00
66	-121.89045	0.000	0.00
67	-45.55314	0.000	0.00
68	-71.50349	0.000	0.00
69	-44.69394	0.000	0.00
70	-31.88868	0.000	0.00

71	-16.42216	0.000	0.00
72	-9.97397	0.000	0.00
73	1.32381	0.000	0.00
74	-0.08586	0.000	0.00
75	-0.71857	0.000	0.00
76	2.68563	0.000	0.00
77	-2.97095	0.000	0.00
78	-0.20337	0.000	0.00
79	1.47848	0.000	0.00
80	-0.16834	0.000	0.00
81	1.50463	0.000	0.00
82	0.77276	0.000	0.00
83	-0.16725	0.000	0.00
84	0.63591	0.000	0.00
85	2.02043	0.000	0.00
86	2.63226	0.000	0.00
87	4.26361	0.000	0.00
88	-0.73163	0.000	0.00
89	14.25241	0.000	0.00
90	-8.60653	0.000	0.00
91	-1.37175	0.000	0.00
92	0.33379	0.000	0.00
93	-3.32285	0.000	0.00
94	1.01634	0.000	0.00
95	-11.38817	0.000	0.00
96	-2.20689	0.000	0.00
97	-0.16137	0.000	0.00
98	-0.06382	0.000	0.00
99	-0.00435	0.000	0.00
100	0.01728	0.000	0.00
101	0.03292	0.000	0.00
102	0.00347	0.000	0.00
103	-0.04543	0.000	0.00
104	-0.13280	0.000	0.00
105	-0.15136	0.000	0.00
106	-0.67041	0.000	0.00
107	-0.94702	0.000	0.00
108	-1.45167	0.000	0.00
109	-1.90036	0.000	0.00
110	-1.01014	0.000	0.00
111	-1.60177	0.000	0.00
112	-0.86123	0.000	0.00
113	-0.96708	0.000	0.00
114	-1.36174	0.000	0.00
115	-0.40864	0.000	0.00
116	-0.23589	0.000	0.00
117	0.20948	0.000	0.00
118	-0.03100	0.000	0.00
119	0.31463	0.000	0.00
120	0.06037	0.000	0.00
121	-0.07998	0.000	0.00
122	0.23517	0.000	0.00
123	0.08327	0.000	0.00
124	0.02841	0.000	0.00
125	0.09209	0.000	0.00
126	0.04655	0.000	0.00
127	-0.00365	0.000	0.00
128	0.12885	0.000	0.00
129	0.09501	0.000	0.00
130	0.06831	0.000	0.00
131	0.06156	0.000	0.00
132	-0.01185	0.000	0.00
133	-0.00229	0.000	0.00
134	0.01516	0.000	0.00
135	0.03099	0.000	0.00
136	50.48515	0.000	0.00
137	-0.01100	0.000	0.00
138	-16.12913	0.000	0.00
139	0.06391	0.000	0.00
140	7.86760	0.000	0.00
141	0.08855	0.000	0.00
142	-5.19966	0.000	0.00
143	0.06573	0.000	0.00
144	-4.97598	0.000	0.00
145	0.05112	0.000	0.00
146	-8.64833	0.000	0.00
147	-0.02448	0.000	0.00
148	-3.00482	0.000	0.00
149	0.04838	0.000	0.00
150	-3.36518	0.000	0.00
151	0.04567	0.000	0.00
152	-1.82073	0.000	0.00
153	-0.00088	0.000	0.00

154	-0.86951	0.000	0.00
155	-0.12011	0.000	0.00
156	-0.23708	0.000	0.00
157	-0.31814	0.000	0.00
158	-0.06010	0.000	0.00
159	-0.34123	0.000	0.00
160	0.19381	0.000	0.00
161	-0.25853	0.000	0.00
162	-0.01081	0.000	0.00
163	-0.21736	0.000	0.00
164	-0.22789	0.000	0.00
165	-0.21029	0.000	0.00
EL.ID RECH. VPRM HDLEAK (I5,3F10.0)			
1	-0.0004	0.0000	0.00
2	-0.0004	0.0000	0.00
3	-0.0004	0.0000	0.00
4	-0.0004	0.0000	0.00
5	-0.0002	0.0000	0.00
6	-0.0002	0.0000	0.00
7	-0.0002	0.0000	0.00
8	-0.0002	0.0000	0.00
9	-0.0002	0.0000	0.00
10	-0.0002	0.0000	0.00
31	-0.00157	0.0000	0.00
33	-0.00125	0.0000	0.00
35	-0.0000	0.0000	0.00
65	-0.0124	0.0000	0.00

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14. ABSTRACT <p>The groundwater flow system at Rocky Mountain Arsenal (RMA) is complex. To evaluate proposed remedial alternatives, interaction of the local groundwater flow system with the present contamination control systems must be understood. The purpose of this modeling effort is to provide a tool for evaluation and relative comparison of groundwater remedial alternatives. The model provides a method to assess the local groundwater impact of each remedial alternative. Results from the modeling effort will be used to compare the preliminary design of various remedial alternatives and allow general modification and reconfiguration of those designs to optimize their performance as part of the Detailed Analysis of Alternatives (DAA) of the Feasibility Study (FS).</p> <p>Specific objectives of the modeling effort were developed based on the FS modeling needs established by RMA. Objectives are used to assist in defining the goals and associated scope of work of the modeling effort and address the need for modeling during the DAA of the FS, which requires comparison of remedial alternatives that have been retained. Objectives also allow for some flexibility in the analysis, such as combination or addition of remedial alternatives during subsequent phases of the FS.</p> <p style="text-align: right;">(Continued)</p>					
15. SUBJECT TERMS Basin F Groundwater modeling Rocky Mountain Arsenal					
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				340	

14. (Concluded)

This modeling effort accounts for groundwater flow in the upper Denver Fm. This approach differs from the majority of previous modeling efforts, which treat unsaturated alluvium areas as impermeable and do not address flow in the Denver Fm. Exchange of groundwater between the alluvium and the Denver Fm sands, basins, and precipitation infiltration is handled by areal inputs.

The model was calibrated by applying the existing concepts of flow in the modeled area to reproduce known water levels, groundwater discharge and recharge, and the flux through the aquifer system and across boundaries.

It is the intent of this modeling effort to incorporate all current pertinent hydrogeologic data into the model. Corrections to the RMA database and data from other ongoing modeling activities were incorporated when possible.